Panasonic

THE FUTURE IS SECURE.

2014 VIDEO SURVEILLANCE CATALOG

WHY PANASONIC?

From the company that brought you the first security camera in 1957 and invented over a dozen industry standards, Panasonic provides industry-leading solutions to capture, record, manage and analyze surveillance video. Panasonic provides a comprehensive lineup of video surveillance products and solutions that offer the industry's highest picture quality, mission-critical reliability and the industry's lowest total cost of ownership. When it counts, you can count on Panasonic video surveillance products and systems to deliver.

CUSTOMER-FOCUSED SERVICE AND SUPPORT

Panasonic has a long-standing reputation for offering the highest-quality video surveillance products that are backed up with outstanding technical support and service programs. When you purchase a Panasonic video surveillance product, you not only receive a product designed to deliver long-lasting performance, but Panasonic will stand behind your purchase with a toll-free technical support hotline and a comprehensive 3-year* warranty with Advance Exchange, as well as extended warranty options.

TOLL-FREE TECHNICAL SUPPORT

Panasonic's toll-free technical support hotline is staffed by a team of dedicated professionals who are thoroughly trained to troubleshoot and diagnose technical issues related to your Panasonic surveillance equipment. Customers can take advantage of Panasonic's toll-free, 24/7 technical support with hold times less than one minute by calling 1.800.528.6747.

COMPREHENSIVE 3-YEAR* WARRANTY WITH ADVANCE EXCHANGE

Panasonic video surveillance products are backed by a 3-year* Advance Exchange Warranty. In the event that a Panasonic surveillance product has a defect in material or workmanship, Panasonic's National Repair Center will repair or exchange the nonfunctioning unit with a new or functioning refurbished product free of charge. Advance Exchange provides next-business-day replacement of a defective product or system component, which ensures that uptime is maximized and your security systems remain in working condition.

EXTENDED WARRANTY PROGRAM

Panasonic's service and support does not have to end when our standard warranty expires. We offer 1 or 2-year extended warranty options that provide the same outstanding level of coverage as our standard warranty, including Advance Exchange. Panasonic's extended warranty delivers peace of mind by providing seamless coverage for up to 5 years on your video surveillance investment.

*3-year standard warranty on select models

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SURVEILLANCE AND MONITORING SYSTEMS LINEUP 2014

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NEW NETWORK CAMERA MODEL NUMBER FORMAT

W	V	-	S						
			Category: S	Form Factor 1	Form Factor 2	Subcategory	Resolution	Model Grade	Additional Function

- **Form Factor 1:** **P:** Conventional Box; **F:** Fixed Dome; **T:** Pan/Tilt; **C:** Pan/Tilt/Zoom (Combination)
- **Form Factor 2:** **N:** INdoor; **R:** Rugged (Indoor Vandal); **W:** Outdoor (Weather Resistant); **V:** Outdoor (Vandal)
- **Subcategory:** **1:** 1 Series; **3:** 3 Series; **4:** 4 Series (360°); **5:** 5 Series; **6:** 6 Series
- **Resolution:** **0:** SVGA/VGA; **1:** 720p/1MP; **3:** 1080p/2-3MP; **8:** 4K/8MP (TBD)
- **Additional Function:** **L:** IR LED; **W:** Wireless; **M:** M12 Connector

FEATURE NAMES

Full High Definition 1080/60p
Full High Definition 1080/30p
High Definition 720/60p
High Definition 720/30p
High Definition
H.264, MPEG-4 and JPEG Supported
H.264 and JPEG Supported
MPEG-4 and JPEG Supported
MPEG-4 Supported
2-area or more VIQS (Variable Image Quality on Specified Area)
Intelligent-video Motion Detection

ONVIFS
UniPhier®
90x Extra Optical Zoom
72x Extra Optical Zoom
36x Extra Optical Zoom
36x Optical Zoom
30x Optical Zoom
22x Optical Zoom
21x Optical Zoom
2.3x Optical Zoom

RSA Secured®
Advanced Auto Tracking
ClearSight™ Coating
Dehumidifier
Face Matching
Auto Back Focus
Wireless Communications
Body Heat Sensor
IR LED
Day & Night (IR)
Day & Night (Electrical)

Fog Compensation Function
High Light Compensation
Vandal-resistant
Water and Dust Resistance: IP55
Water and Dust Resistance: IP66
SD Enhanced Super Dynamic
SD6 Super Dynamic
SD5 Super Dynamic
Super Dynamic3
SD5 Link
HDMI

NEW FOR 2014

INTRODUCING THE NEW HIGH-PERFORMANCE UNIPHIER® CAMERA PLATFORM FOR **6 SERIES** AND **3 SERIES** CAMERAS

The next generation UniPhier® Camera Platform is the heart of Panasonic's new top-of-the-line 6 Series and standard 3 Series camera lines. Featuring a newly developed high-sensitivity MOS Sensor and Shadow H.264 Compression Engine, the powerful UniPhier Platform delivers sharp and natural color images with exceptional low-light performance capability (down to .01 lux). The new Codec Engine attains the best video compression performance to provide superb image quality while providing savings on bandwidth and the recording system.

The UniPhier Platform—developed exclusively by Panasonic for use in its new 6 Series and 3 Series cameras—offers innovative functions like Enhanced Super Dynamic Range (133dB) video dynamic range and 60 frames per second performance in 1080p, delivering outstanding performance even in the most dynamic and challenging lighting conditions. The cameras have the ability to encode up to four H.264 streams to ensure simultaneous real-time monitoring, high-resolution recording and mobile access.

The new 6 Series consists of these eight models: WV-SFV631L (1080 60p) and WV- SFV611L (720 60p) outdoor vandal-resistant, WV-SFR631L (1080 60p) and WV-SFR611L (720 60p) indoor vandal-resistant, WV-SFN631L (1080 60p) and WV-SFN611L (720 60p) indoor dome, and WV-SPN631 (1080 60p) and WV-SPN611 (720 60p) indoor box cameras.

The new 3 Series includes these eight 720p models: WV-SFV311 and WV-SFV310 outdoor vandal-resistant, WV-SFR311 and WV-SFR310 indoor vandal-resistant, and coming in October, the WV-SPN311 and WV-SPN310 indoor box and WV-SFN311 and WV-SFN310 indoor dome cameras.

Innovative features shared by the new 6 Series and 3 Series include:

AN AMAZING 133DB ENHANCED SUPER DYNAMIC LIGHT RANGE COMPENSATION

Featuring industry-leading 133dB Enhanced Super Dynamic and Adaptive Black Stretch (ABS) technologies, the new 6 Series and 3 Series cameras allow you to see images that you couldn't see before.

Enhanced Super Dynamic: 133dB Wide Dynamic Range

Conventional Super Dynamic Range

EXCEPTIONAL IMAGE QUALITY

The new 6 Series and 3 Series cameras' ultra-fast frame rate of 60 fps combines with their high-resolution video quality to ensure crisp, smooth motion for applications in casinos, airports, stadiums and much more.

60 fps Simulated

30 fps Simulated

HIGH SENSITIVITY WITH MULTI-PROCESSING NOISE REDUCTION

With a combination of 3D Noise Reduction and Multi-process Noise Reduction (MNR), both the bright area and the dark area of an image are faithfully reproduced with minimum noise in high-sensitivity image recording.

WV-SFV631 at 0.57 lux

Conventional Camera at 0.57 lux

EASE OF INSTALLATION

The 6 Series and 3 Series cameras are easy to install, with six patterns of holes for various gang boxes, a 4-point locking mechanism to simplify the mounting direction, a non-screw lock PTY mechanism to enable quicker angle adjustment, and a flat-bottom body to enable installation without a surface mounting unit.

WEATHER COMPENSATION

To help improve the captured image in poor weather conditions, such as smog, fog or smoke, the visibility of the 6 Series and 3 Series cameras can be enhanced in any weather condition.

Fog Compensation ON

Fog Compensation OFF

MULTI STREAMING

The 6 Series and 3 Series cameras provide multiple H.264 (high-profile) streams (max. 4 streams) to ensure simultaneous real-time monitoring, high-resolution recording and mobile access. The multiple video streams (in different resolutions) can be viewed live, saved for viewing, or exported, and are available in search and playback. All streams can be individually configured.

SMART DOF (DEPTH OF FIELD)

With this new feature, a 6 Series camera controls both the iris and the shutter to deliver a deeper depth of field. The depth of field (DOF) is automatically optimized to enhance focus for both near and far objects within the camera's view.

6 Series

Conventional Fixed Dome Camera

NEW FOR 2014

WJ-NV300 i-PRO SmartHD NETWORK DISK RECORDER

The WJ-NV300 is a standalone network video recording solution designed to deliver an all-in-one, PC-less surveillance solution out of the box. The system delivers full camera viewing, control and recording capabilities through a built-in mouse-driven graphical user interface, now supporting dual screen HDMI outputs. Featuring a standard 16 channels of Full HD recording and field-expandable up to 32 channels, the NV300 supports a total recording bandwidth of up to 128 Mbps, twice the rate of its predecessor, the NV200. Support for optional WJ-HDE400 hard disk RAID-capable expansion unit can also extend the system's local video storage up to 80TB.

KEY FEATURES

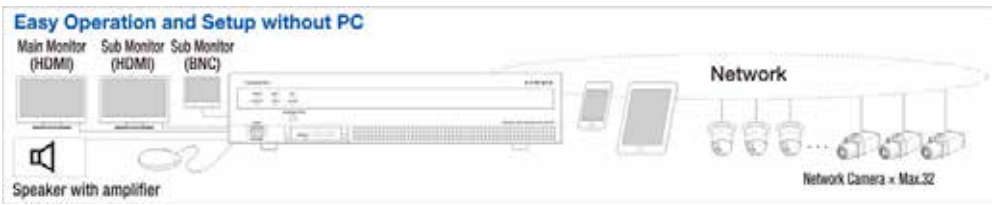
SUPPORTS UP TO 32 CAMERAS

The NV300 comes pre-installed with 16 camera licenses for Full HD recording, and it's field-expandable for up to 32 channels with the optional WJ-NVE30 Additional Camera Kit. Live images from up to 32 cameras can be displayed simultaneously.

ULTRA EASY SETUP, OPERATION AND INTEGRATION

Its plug-and-play operation enables users to set it up in a few minutes and operate just about all features from the main display without running a PC. It offers full camera viewing, control and recording capabilities through a built-in mouse-driven graphical user interface, and is equipped with dual screen HDMI outputs, which permit quick connection to a main and sub-monitor. Its dual gigabit Ethernet interfaces support flexible network configurations and faster video transfers.

The NV300 offers quick intuitive search with calendar and timeline and camera control, including control of Pan/Tilt, Zoom, Focus, Brightness, Preset Position and Auto Mode (depending on camera model). Its flexible playback controls include Go to Date (jump to specific time/date) and Go to Last (jump to 30 sec. before the record end). And it features an array of display modes (Spot, Multiscreen [4 / 16 split screen display, 4 / 6 / 9 / 12 / 16 / 24 / 32 split screen display on a full screen] and recording modes, including Schedule, Event [Pre/Post]).



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EXPANDABLE STORAGE UP TO 80 TERABYTES

The NV300 is equipped with two internal HDD Slots that have the capability to hold 8TB of data. By adding the optional WJ-HDE400 hard disk RAID-capable expansion unit, the system's local video storage is expandable up to 80TB, which is large enough to store Full HD video at 30fps from 32 cameras for over three months. With the WJ-HDE400, the NV300 offers RAID 5 and 6 data protection to secure the stored images in case of HDD failure.

FREE ANDROID AND APPLE APPS FOR REMOTE ACCESS

The NV300 can be remotely accessed via Panasonic's FREE Security Viewer 2.1 Android™ and Apple® apps, which support easy mobile camera monitoring and recorder management via Panasonic Toughpad tablets or compatible smartphones and tablets. Even with a slow network connection, Panasonic Re-encoding technology provides smooth viewing, even on low-bandwidth networks.

Download on the App Store

GET IT ON Google play

COPYING CONTENT TO USB/SD MEMORY IS EASY

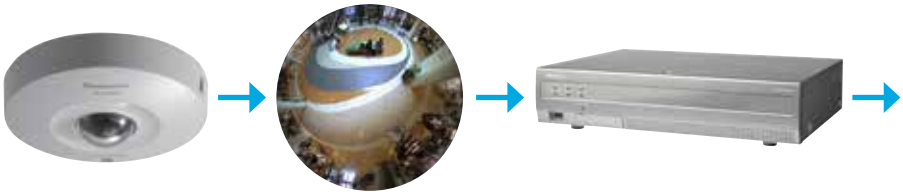
With the WJ-NV300, you are able to copy recordings to a USB or SD memory card, making it easy to move the images to the PC, create a report or email to all concerned parties.

WIDE RANGE OF ALARM SOURCES

The NV300 supports a variety of alarm sources, including 9x Terminal inputs, 32x Camera alarm and Panasonic Alarm Protocol. Flexible alarm actions include Alarm recording, email notification, Alarm message, Camera positioning, Terminal output, Panasonic Alarm Protocol output, Buzzer and Indicator.

SUPPORTS PANASONIC 360-DEGREE IP CAMERAS

The NV300 effectively reduces blind areas, storing the entire picture captured by the Panasonic 360-degree network cameras. It also de-warps and plays the recorded images back on the monitor (without a PC).



Quad PTZ Mode (90°)

NEW FOR 2014

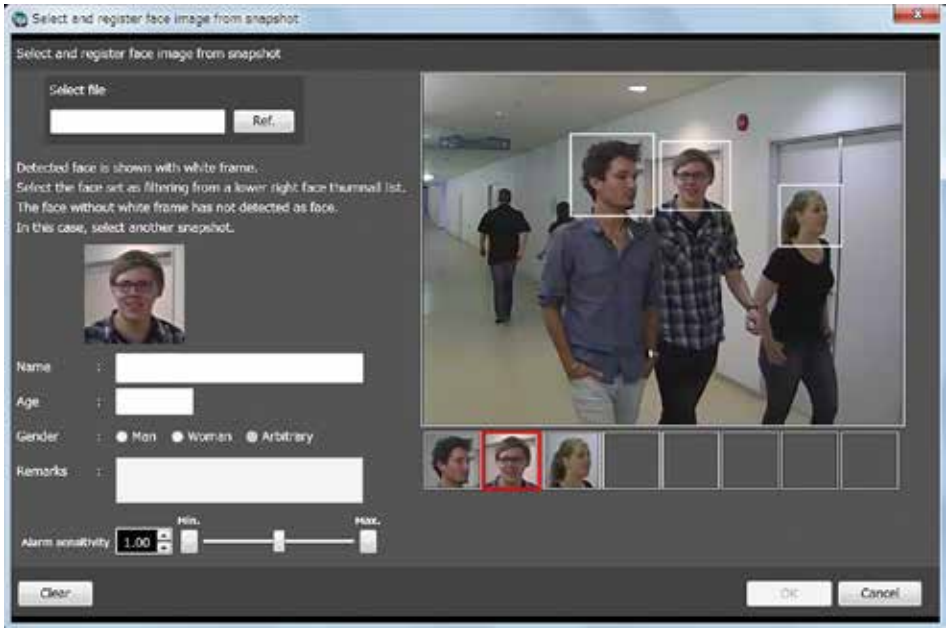
WV-ASF900

FacePro™ Windows® server-based face recognition and analytics platform featuring high-speed face searching and matching

The WV-ASF900 FacePro™ Facial Recognition is a software solution and software engine that automatically performs verification of a person's face using live video streams or digital images from Panasonic i-PRO cameras to match against a database of enrolled faces and perform notification and alerting of face matches. Boasting a real-time processing capacity of up to 10 cameras per server, FacePro can execute high-speed searches of up to 1,000 registered reference faces on both live and recorded video, and each server can store millions of detected face images depending on configuration.

For flexibility, reference face images can be registered from source video or imported via BMP, JPG and PNG files and can be searched for a match in a matter of seconds. FacePro also provides advanced age and gender analytics reporting and the ability to set flexible alarm triggers on matched faces using live cameras. The platform can support multiple simultaneous client sessions with Panasonic's WV-ASM200 and WV-ASM970 software applications.

In addition to live-camera face matching, FacePro features the ability to perform searches and display face matches from a database of historical captured faces. Face match results are displayed for each camera in the system and in chronological order, enabling you to quickly track a person of interest moving through your facility. More refined face searching can be performed by specific camera or date.



How Do I Benefit from FacePro Facial Recognition?

It reduces costs by eliminating personnel to monitor entrances. It lowers your risk by reducing and preventing violent confrontations during capture and instant notification, as well as by instantly alerting you of unwanted persons entering your facility. It's simple and easy to use and does not require physical contact, and it's the only feasible solution to use with large crowds in your facility. In addition, it improves your service and sales potential by recognizing customers.

Its analysis capabilities permit you to count the number of detected faces and evaluate their age and gender, displaying the results on the screen as a statistical graph. This graphical view of a visitors' age and gender can be provided with a 15-minute, 30-minute, hourly, daily, weekly and monthly view for retail and marketing applications. This statistical data can be saved as a CSV file for analytical use.

- Fast multi-camera face matching on both live and previously captured video
- Real-time processing capacity of up to 10 cameras per server with a 10 million face database capacity
- Enrollment of 1,000 "Known Faces" into "Watch Lists" for Instant Match Alerts
- High-speed search of video recordings based on reference faces (5 million captured faces searched in about 3 seconds)
- Utilizes Face Best-Shot option (SAE-ASF) available for Panasonic i-PRO cameras (WV-SP306, WV-SP305 and WV-SC385 models and coming soon WV-SPN631, WV-SPN611, WV-SPN311 and WV-SPN310 models)
- Flexible alarm triggers on matched faces using live cameras
- Integrated into ASM200/ASM970 client software and displays secondary FacePro Screens
- Ideal for Panasonic customers who have either WJ-ND400 or WJ-NV200/300 NVR and ASR500 solutions

NETWORK PRODUCTS

DOME NETWORK CAMERAS

WV-SW598 (24V AC or PoE Plus)

SUPER DYNAMIC WEATHER-RESISTANT FULL HD PTZ DOME NETWORK CAMERA

- 1080p HD images up to 30 fps
- Super high resolution at Full HD / 1920 x 1080 created by 2.4 megapixel high-sensitivity MOS Sensor
- High-resolution processing by UniPhier®
- Full frame (up to 30 fps) transmission at 1920 x 1080 image size
- High sensitivity with Day & Night (IR) function: 0.5 lx (Color), 0.06 lx (B/W) at F1.6
- Super Dynamic and Adaptive Black Stretch (ABS) technologies deliver 128x wider dynamic range compared to conventional cameras
- Face Super Dynamic technology ensures clear images of the face
- 30x optical zoom; 90x extra optical zoom at 640 x 360 resolution with 12x digital zoom enabling 1080x zoom
- 360-degree endless panning
- Advanced auto tracking
- Dehumidification device for use in various weather conditions
- ClearSight™ dome coating
- Smartphone monitoring
- ONVIF-compliant model
- SDXC/SDHC/SD memory card slot
- Fog and sandstorm compensation
- IP66 rated water and dust-resistant
- Compatible with IEC 60529 measurement standard, Type 4X (UL50), NEMA 4X compliant

OPTIONAL ACCESSORIES

Gooseneck Wall Mount **PWM20G** (Black)

Gooseneck Wall Mount **PWM20GB** (Beige)

Gooseneck Wall Mount **PWM20GS** (Silver)

Additional mounting accessories can be found on page 56.

WV-SC588 (12V DC or PoE)

SUPER DYNAMIC FULL HD PTZ DOME NETWORK CAMERA

- 1080p HD images up to 30 fps
- Super high resolution at Full HD / 1920 x 1080 created by 2.4 megapixel high-sensitivity MOS Sensor
- High-resolution processing by UniPhier®
- Full frame (up to 30 fps) transmission at 1920 x 1080 image size
- High sensitivity with Day & Night (IR) function: 0.5 lx (Color), 0.06 lx (B/W) at F1.6
- Super Dynamic and Adaptive Black Stretch (ABS) technologies deliver 128x wider dynamic range compared to conventional cameras
- Face Super Dynamic technology ensures clear images of the face
- 30x optical zoom; 90x extra optical zoom at 640 x 360 resolution with 12x digital zoom enabling 1080x zoom
- 360-degree endless panning
- Advanced auto tracking
- Smartphone monitoring
- ONVIF-compliant model
- SDXC/SDHC/SD memory card slot
- Fog and sandstorm compensation
- Optional outdoor housings (see page 54)

OPTIONAL ACCESSORIES

Embedded Ceiling Mount Bracket **WV-Q126A**

Wall Mount Bracket **WV-Q118B**

Smoke Dome Cover **WV-CS5S**

Clear Dome Cover **WV-CS5C**

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WV-SW396A (24V AC or PoE Plus)

SUPER DYNAMIC WEATHER-RESISTANT HD PTZ DOME NETWORK CAMERA

- 720p HD images up to 30 fps
- Newly developed 1.3 megapixel double-speed MOS Sensor
- High-resolution processing by UniPhier®
- Full frame (up to 30 fps) transmission at 1280 x 960 image size
- High sensitivity with Day & Night function: 0.5 lx (Color), 0.06 lx (B/W) at F1.4 (Wide)
- Super Dynamic and Adaptive Black Stretch (ABS) technologies deliver 128x wider dynamic range compared to conventional cameras
- Face Super Dynamic technology ensures clear images of the face
- 36x optical zoom with 12x digital zoom enabling 432x zoom; 72x extra optical zoom at VGA resolution with 12x digital zoom enabling 864x zoom
- 360-degree endless panning
- Advanced auto tracking
- Supports Power over Ethernet Plus (PoE Plus) IEEE 802.3at (does not support IEEE B802.3af)
- Dehumidification device for use in various weather conditions
- ClearSight™ dome coating
- Smartphone monitoring
- ONVIF-compliant model
- SDXC/SDHC/SD memory card slot
- IP66 rated water and dust-resistant
- Compatible with IEC 60529 measurement standard, Type 4X (UL50), NEMA 4X compliant

OPTIONAL ACCESSORIES

Gooseneck Wall Mount **PWM20G** (Black)

Gooseneck Wall Mount **PWM20GB** (Beige)

Gooseneck Wall Mount **PWM20GS** (Silver)

Additional mounting accessories can be found on page 56.

WV-SC386 (12V DC or PoE)

SUPER DYNAMIC HD PTZ DOME NETWORK CAMERA

- 720p HD images up to 30 fps
- Newly developed 1.3 megapixel double-speed MOS Sensor
- High-resolution processing by UniPhier®
- Full frame (up to 30 fps) transmission at 1280 x 960 image size
- High sensitivity with Day & Night function: 0.5 lx (Color), 0.06 lx (B/W) at F1.4 (Wide)
- Super Dynamic and Adaptive Black Stretch (ABS) technologies deliver 128x wider dynamic range compared to conventional cameras
- Face Super Dynamic technology ensures clear images of the face
- 36x optical zoom with 12x digital zoom enabling 432x zoom; 72x extra optical zoom at VGA resolution with 12x digital zoom enabling 864x zoom
- 360-degree endless panning
- Advanced auto tracking
- Supports Power over Ethernet (PoE) IEEE 802.3af
- Smartphone monitoring
- ONVIF-compliant model
- Optional outdoor housings (see page 54)

OPTIONAL ACCESSORIES

Ceiling Mount Bracket **WV-Q105**

Embedded Ceiling Mount Bracket **WV-Q126A**

Wall Mount Bracket **WV-Q118A**

Smoke Dome Cover **WV-CS4S**

WV-SW395A (24V AC or PoE Plus)

SUPER DYNAMIC WEATHER-RESISTANT HD PTZ DOME NETWORK CAMERA

- 720p HD images up to 30 fps
- Newly developed 1.3 megapixel double-speed MOS Sensor
- High-resolution processing by UniPhier®
- Full frame (up to 30 fps) transmission at 1280 x 960 image size
- High sensitivity: 0.5 lx (Color), 0.06 lx (B/W) at F1.6 (Wide) / 0.031 lx (Color), 0.004 lx (B/W) at F1.6 (Wide) with electronic sensitivity enhancement up to 16x
- Super Dynamic and Adaptive Black Stretch (ABS) technologies deliver 128x wider dynamic range compared to conventional cameras
- Face Super Dynamic technology ensures clear images of the face
- 18x optical zoom with 12x digital zoom enabling 216x zoom; 36x extra optical zoom at VGA resolution with 12x digital zoom enabling 432x zoom
- Panning with auto flip function can be performed 0 to 360 degrees
- Auto tracking
- Supports Power over Ethernet Plus (PoE Plus) IEEE 802.3at (does not support IEEE 802.3af)
- Dehumidification device for use in various weather conditions
- ClearSight™ dome coating
- Smartphone monitoring
- ONVIF-compliant model
- TAA compliant and DIACAP pre-certified
- IP66 rated water and dust-resistant
- Compatible with IEC 60529 measurement standard, Type 4X (UL50), NEMA 4X compliant

OPTIONAL ACCESSORIES

Gooseneck Wall Mount **PWM20G** (Black)

Gooseneck Wall Mount **PWM20GB** (Beige)

Gooseneck Wall Mount **PWM20GS** (Silver)

Additional mounting accessories can be found on page 56.

WV-SC385 (12V DC or PoE)

SUPER DYNAMIC HD PTZ NETWORK CAMERA

- 720p HD images up to 30 fps
- Newly developed 1.3 megapixel double-speed MOS Sensor
- High-resolution processing by UniPhier®
- Full frame (up to 30 fps) transmission at 1280 x 960 image size
- High sensitivity: 0.5 lx (Color), 0.06 lx (B/W) at F1.6 (Wide) / 0.031 lx (Color), 0.004 lx (B/W) at F1.6 (Wide) with electronic sensitivity enhancement up to 16x
- Super Dynamic and Adaptive Black Stretch (ABS) technologies deliver 128x wider dynamic range compared to conventional cameras
- Face Super Dynamic technology ensures clear images of the face
- 18x optical zoom with 12x digital zoom enabling 216x zoom; 36x extra optical zoom at VGA resolution with 12x digital zoom enabling 432x zoom
- Panning with auto flip function can be performed 0 to 360 degrees
- Auto tracking
- Supports Power over Ethernet (PoE) IEEE 802.3af
- Smartphone monitoring
- Desktop/ceiling position choice and various optional brackets for versatile installations
- ONVIF-compliant model
- TAA compliant and DIACAP pre-certified
- Optional outdoor housings (see page 54)

36x EXTRA OPTICAL ZOOM

OPTIONAL ACCESSORIES

Ceiling Mount Bracket
WV-Q105

Inner Dome Cover
WV-Q157

Wall Mount Brackets
WV-Q154C (Clear)
WV-Q154S (Smoke)

Smoke Type

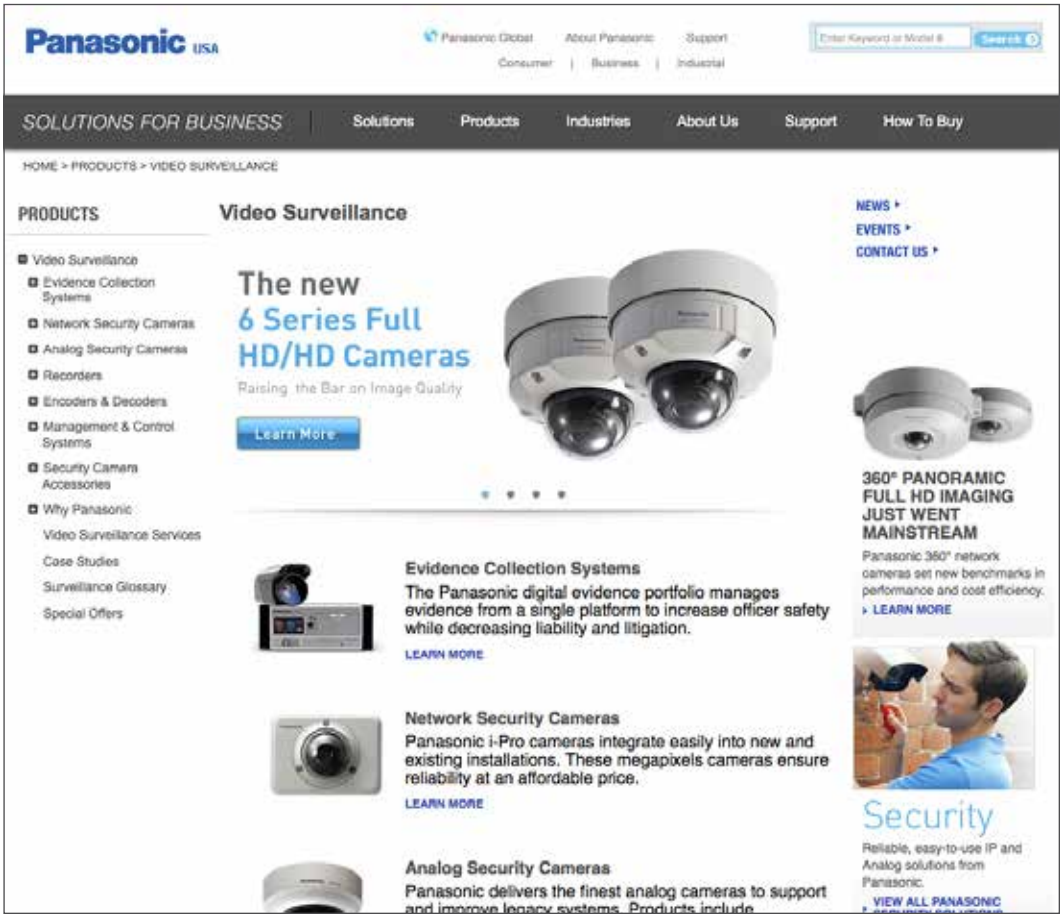
Embedded Ceiling Mount Brackets
WV-Q155C (Clear)
WV-Q155S (Smoke)

Smoke Type

Indoor Dome Covers
WV-Q156C (Clear)
WV-Q156S (Smoke)

Smoke Type

FOR THE LATEST INFORMATION ON PANASONIC SECURITY PRODUCTS, VISIT OUR WEBSITE: us.panasonic.com/security



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NEW WV-SFV631LT (12V DC or PoE)

INDOOR/OUTDOOR ENHANCED SUPER DYNAMIC FULL HD VANDAL-RESISTANT AND WATERPROOF DOME NETWORK CAMERA

- 1080p Full HD images up to 60 fps*
- Approximately 1/3-inch, high-sensitivity MOS Sensor
- Multiple H.264 (high-profile) streams (max. 4 streams) and JPEG streams ensure simultaneous real-time monitoring and high-resolution recording by new enhanced UniPhier®, Panasonic's proprietary System LSI platform
- Maximum screen size is 2048 x 1536* @30fps, H.264
- Enhanced Super Dynamic* and Adaptive Black Stretch (ABS) technologies deliver 133dB wider dynamic range compared to conventional cameras
- High sensitivity with Day & Night (IR) function: 0.06 lx (Color), 0.015 lx (B/W) at F1.3
- IR LED equipped: The equipped infrared LED makes it possible to take pictures at 0 lx
- IR LED is controlled to match the environment, enabling the camera to provide clear images of human faces without white blur
- High-speed Auto Back Focus (ABF) and Motorized Zoom ensure easy installation
- Fog compensation function equipped as standard
- Varifocal Length: 9-22 mm
- Double SDXC/SDHC/SD memory card slots
- IP66 rated water and dust-resistant
- Compatible with IEC 60529 measurement standard, Type 4X (UL50), NEMA 4X compliant
- Vandal-resistant mechanism for high reliability
- Mounting accessories: PWM484S, PHM484S, PCM484S and PPM484S (See page 50)

*Super Dynamic function is automatically set off on 60 fps mode

OPTIONAL ACCESSORIES

Ceiling Mount Bracket
WV-Q169A

Smoke Dome Cover
WV-CW7S

Extended Sun Shade
WV-Q7118

WV-SFV631L (12V DC or PoE)

INDOOR/OUTDOOR ENHANCED SUPER DYNAMIC FULL HD VANDAL-RESISTANT AND WATERPROOF DOME NETWORK CAMERA

- 1080p Full HD images up to 60 fps*
- Approximately 1/3-inch, high-sensitivity MOS Sensor
- Multiple H.264 (high-profile) streams (max. 4 streams) and JPEG streams ensure simultaneous real-time monitoring and high-resolution recording by new enhanced UniPhier®, Panasonic's proprietary System LSI platform
- Maximum screen size is 2048 x 1536* @30fps, H.264
- Enhanced Super Dynamic* and Adaptive Black Stretch (ABS) technologies deliver 133dB wider dynamic range compared to conventional cameras
- High sensitivity with Day & Night (IR) function: 0.04 lx (Color), 0.01 lx (B/W) at F1.3
- IR LED equipped: The equipped infrared LED makes it possible to take pictures at 0 lx
- IR LED is controlled to match the environment, enabling the camera to provide clear images of human faces without white blur
- High-speed Auto Back Focus (ABF) and Motorized Zoom ensure easy installation
- Fog compensation function equipped as standard
- Double SDXC/SDHC/SD memory card slots
- ONVIF-compliant model
- IP66 rated water and dust-resistant
- Compatible with IEC 60529 measurement standard, Type 4x (UL50), NEMA 4x compliant
- Vandal-resistant mechanism for high reliability
- Mounting accessories: PWM484S, PHM484S, PCM484S and PPM484S (See page 50)

*Super Dynamic function is automatically set off on 60 fps mode

OPTIONAL ACCESSORIES

Embedded Ceiling Mount Bracket
WV-Q169A

Smoke Dome Cover
WV-CW7S

Extended Sun Shade
WV-Q7118

WV-SFV611L (12V DC or PoE)

INDOOR/OUTDOOR ENHANCED SUPER DYNAMIC HD VANDAL-RESISTANT AND WATERPROOF DOME NETWORK CAMERA

- 720p HD images up to 60 fps*
- Approximately 1/3-inch, high-sensitivity MOS Sensor
- Multiple H.264 (high-profile) streams (max. 4 streams) and JPEG streams ensure simultaneous real-time monitoring and high-resolution recording by new enhanced UniPhier®, Panasonic's proprietary System LSI platform
- High sensitivity with Day & Night (IR) function: 0.01 lx (Color), 0.003 lx (B/W) at F1.3
- Enhanced Super Dynamic* and Adaptive Black Stretch (ABS) technologies deliver 133dB wider dynamic range compared to conventional cameras
- IR LED equipped: The equipped infrared LED makes it possible to take pictures at 0 lx
- IR LED is controlled to match the environment, enabling the camera to provide clear images of human faces without white blur
- High-speed Auto Back Focus (ABF) and Motorized Zoom ensure easy installation
- Fog compensation function equipped as standard
- Double SDXC/SDHC/SD memory card slots
- ONVIF-compliant model
- IP66 rated water and dust-resistant
- Compatible with IEC 60529 measurement standard, Type 4x (UL50), NEMA 4x compliant
- Vandal-resistant mechanism for high reliability
- Mounting accessories: PWM484S, PHM484S, PCM484S and PPM484S (See page 50)

OPTIONAL ACCESSORIES

Ceiling Mount Bracket
WV-Q169A

Smoke Dome Cover
WV-CW7S

Extended Sun Shade
WV-Q7118

WV-SW559 (12V DC or PoE)

INDOOR/OUTDOOR SUPER DYNAMIC FULL HD VANDAL-RESISTANT DOME NETWORK CAMERA

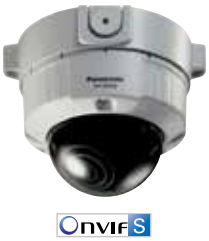
- 1080p Full HD images up to 30 fps and 360p images up to 30 fps simultaneously
- Super high resolution at Full HD / 1920 x 1080 created by 3.1 megapixel high-sensitivity MOS Sensor
- Combining enhanced UniPhier®, Panasonic's proprietary System LSI platform, and 2-area VIQS (Variable Image Quality on Specified Area) function can decrease network bandwidth
- Super Dynamic and Adaptive Black Stretch (ABS) technologies deliver 128x wider dynamic range compared to conventional cameras
- Face Super Dynamic technology ensures clear images of the face
- 3x extra optical zoom at 360p resolution (Picture Mode: 2 megapixel [16:9])
- High sensitivity with Day & Night (IR) function: 0.5 lx (Color), 0.06 lx (B/W) at F1.3
- IP66 rated water and dust-resistant
- Compatible with IEC 60529 measurement standard, Type 4X (UL50), NEMA 4X compliant
- Dehumidification device for use in various weather conditions
- Vandal-resistant mechanism for high reliability
- Smartphone monitoring
- ONVIF-compliant model
- Full duplex bidirectional audio
- SDXC/SDHC/SD memory card slot
- Mounting accessories: PWM484S, PHM484S, PCM484S and PPM484S (See page 50)
- TAA compliant and DIACAP pre-certified

OPTIONAL ACCESSORIES

Embedded Ceiling Mount Bracket **WV-Q169A**

Smoke Dome Cover **WV-CW4S**

Extended Sun Shade **WV-Q7118**



WV-SW558 (12V DC or PoE)

INDOOR/OUTDOOR SUPER DYNAMIC FULL HD VANDAL-RESISTANT DOME NETWORK CAMERA

- 1080p Full HD images up to 30 fps and 360p image up to 30 fps simultaneously
- Super high resolution at Full HD / 1920 x 1080 created by 3.1 megapixel high-sensitivity MOS Sensor
- Combining enhanced UniPhier®, Panasonic's proprietary System LSI platform, and 2-area VIQS (Variable Image Quality on Specified Area) function can decrease network bandwidth
- Super Dynamic and Adaptive Black Stretch (ABS) technologies deliver 128x wider dynamic range compared to conventional cameras
- Face Super Dynamic technology ensures clear images of the face
- 3x extra optical zoom at 360p resolution (Picture Mode: 2 megapixel [16:9])
- High sensitivity with Day & Night (Electrical) function: 0.5 lx (Color), 0.3 lx (B/W) at F1.3
- IP66 rated water and dust-resistant
- Compatible with IEC 60529 measurement standard, Type 4X (UL50), NEMA 4X compliant
- Dehumidification device for use in various weather conditions
- Vandal-resistant mechanism for high reliability
- Smartphone monitoring
- ONVIF-compliant model
- Mounting accessories: PWM484S, PHM484S, PCM484S and PPM484S (See page 50)

OPTIONAL ACCESSORIES

Embedded Ceiling Mount Bracket **WV-Q169A**

Smoke Dome Cover **WV-CW4S**

Extended Sun Shade **WV-Q7118**

WV-SW458

Network connector section (RJ45 connector)

WV-SW458M

Network connector section (M12 connector)

WV-SW458
WV-SW458M (12V DC or PoE)

INDOOR/OUTDOOR 360-DEGREE SUPER DYNAMIC VANDAL-RESISTANT DOME NETWORK CAMERAS

- 360-degree monitoring with a wide variety of transmission modes: Panorama, Double Panorama, Quad PTZ, Single PTZ and Quad streams (H.264/VGA)
- 1080p Full HD images up to 30 fps
- Combining enhanced UniPhier®, Panasonic's proprietary System LSI platform, and 2-area VIQS (Variable Image Quality on Specified Area) function can decrease network bandwidth
- Multiple H.264 (high-profile) streams and JPEG streams ensure simultaneous real-time monitoring and high-resolution processing by enhanced UniPhier®
- Smooth PTZ operation without mechanical action
- Built-in distortion correction function
- A fisheye lens control function realizes intelligible screen operation intuitively
- Super Dynamic and Adaptive Black Stretch (ABS) technologies deliver 128x wider dynamic range compared to conventional cameras
- High sensitivity with Day & Night (Electrical) function: 1.5 lx (Color), 1.2 lx (B/W) at F2.4
- IP66 rated water and dust-resistant; compatible with IEC 60529 measurement standard, Type 4x (UL50), NEMA 4x compliant
- Vandal-resistant mechanism for high reliability
- "Railway applications—electronics equipment used on rolling stock" compatible with EN50155
- Mounting accessories: PWM484S, PHM484S, PCM484S and PPM484S (See page 50)

Panasonic

WV-SFV311 (12V DC or PoE)

INDOOR/OUTDOOR ENHANCED SUPER DYNAMIC HD VANDAL-RESISTANT AND WATERPROOF DOME NETWORK CAMERA

- **720p HD images up to 60 fps***
- Approximately 1/3-inch, high-sensitivity MOS Sensor
- Multiple H.264 (high-profile) streams (max. 4 streams) and JPEG streams ensure simultaneous real-time monitoring and high-resolution recording by new enhanced UniPhier®, Panasonic's proprietary System LSI platform
- **Enhanced Super Dynamic* and Adaptive Black Stretch (ABS) technologies deliver 133dB wider dynamic range compared to conventional cameras**
- **High sensitivity with Day & Night (IR) function: 0.01 lx (Color), 0.003 lx (B/W) at F1.6**
- Auto Back Focus (ABF) ensures easy installation
- Fog compensation function equipped as standard
- Super Chroma Compensation function realizes a better color reproducibility even in low illumination
- IP66 rated water and dust-resistant
- Compatible with IEC 60529 measurement standard, Type 4X (UL50), NEMA 4X compliant
- Vandal-resistant mechanism for high reliability
- Mounting accessories: PWM484S, PHM484S, PCM484S and PPM484S (See page 50)

*Super Dynamic function is automatically set off on 60 fps mode

OPTIONAL ACCESSORIES

Ceiling Mount Bracket **WV-Q169A**

Smoke Dome Cover **WV-CW7S**

Extended Sun Shade **WV-Q7118**

WV-SFV310 (12V DC or PoE)

INDOOR/OUTDOOR ENHANCED SUPER DYNAMIC HD VANDAL-RESISTANT AND WATERPROOF DOME NETWORK CAMERA

- **720p HD images up to 60 fps***
- Approximately 1/3-inch, high-sensitivity MOS Sensor
- Multiple H.264 (high-profile) streams (max. 4 streams) and JPEG streams ensure simultaneous real-time monitoring and high-resolution recording by new enhanced UniPhier®, Panasonic's proprietary System LSI platform
- **Enhanced Super Dynamic* and Adaptive Black Stretch (ABS) technologies deliver 133dB wider dynamic range compared to conventional cameras**
- **High sensitivity with Day & Night (Electrical) function: 0.01 lx (Color), 0.008 lx (B/W) at F1.6**
- Fog compensation function equipped as standard
- IP66 rated water and dust-resistant
- Compatible with IEC 60529 measurement standard, Type 4X (UL50), NEMA 4X compliant
- Vandal-resistant mechanism for high reliability
- Mounting accessories: PWM484S, PHM484S, PCM484S and PPM484S (See page 50)

*Super Dynamic function is automatically set off on 60 fps mode

OPTIONAL ACCESSORIES

Ceiling Mount Bracket **WV-Q169A**

Smoke Dome Cover **WV-CW7S**

Extended Sun Shade **WV-Q7118**

WV-SW355 (12V DC or PoE)

INDOOR/OUTDOOR SUPER DYNAMIC HD VANDAL-RESISTANT DOME NETWORK CAMERA

- 720p HD images up to 30 fps
- Newly developed 1.3 megapixel high-sensitivity MOS Sensor
- High sensitivity: 0.3 lx (Color), 0.05 lx (B/W) at F1.6 (Wide) / 0.019 lx (Color), 0.003 lx (B/W) at F1.6 (Wide) with electronic sensitivity enhancement up to 16x
- Super Dynamic and Adaptive Black Stretch (ABS) technologies deliver 128x wider dynamic range compared to conventional cameras
- Face Super Dynamic technology ensures clear images of the face
- Up to 7.2x extra optical zoom at VGA resolution
- VIQS (Variable Image Quality on Specified Area) technology allows the designated area to retain higher image quality while the excluded area will have a decreased image quality, which enables a lower image file size and bit rate
- Dehumidification device for use in various weather conditions
- Vandal-resistant mechanism for high reliability
- Supports Power over Ethernet (PoE) IEEE 802.3af
- Smartphone monitoring
- ONVIF-compliant model
- IP66 rated water and dust-resistant
- Compatible with IEC 60529 measurement standard, Type 4X (UL50), NEMA 4X compliant
- Mounting accessories: PWM484S, PHM484S, PCM484S and PPM484S (See page 50)

OPTIONAL ACCESSORIES

Embedded Ceiling Mount Bracket **WV-Q169A**

Smoke Dome Cover **WV-CW4S**

Heater Unit **WV-SW3H**

Extended Sun Shade **WV-Q7118**

FIXED DOME NETWORK CAMERAS

WV-SW352 (12V DC or PoE)

INDOOR/OUTDOOR SUPER DYNAMIC VANDAL-RESISTANT DOME NETWORK CAMERA

- Super high resolution at SVGA / 800 x 600 created by newly developed 1.3 megapixel high-sensitivity MOS Sensor
- High sensitivity: 0.2 lx (Color), 0.04 lx (B/W) at F1.6 (Wide) / 0.013 lx (Color), 0.002 lx (B/W) at F1.6 (Wide) with electronic sensitivity enhancement up to 16x
- Super Dynamic and Adaptive Black Stretch (ABS) technologies deliver 128x wider dynamic range compared to conventional cameras
- Face Super Dynamic technology ensures clear images of the face
- Up to 7.2x extra optical zoom at VGA resolution
- VIQS (Variable Image Quality on Specified Area) technology allows the designated area to retain higher image quality while the excluded area will have a decreased image quality, which enables a lower image file size and bit rate
- Dehumidification device for use in various weather conditions
- Vandal-resistant mechanism for high reliability
- Supports Power over Ethernet (PoE) IEEE 802.3af
- Smartphone monitoring
- ONVIF-compliant model
- IP66 rated water and dust-resistant
- Compatible with IEC 60529 measurement standard, Type 4X (UL50), NEMA 4X compliant
- Mounting accessories: PWM484S, PHM484S, PCM484S and PPM484S (See page 50)

OPTIONAL ACCESSORIES

Embedded Ceiling Mount Bracket
WV-Q169A

Smoke Dome Cover
WV-CW4S

Heater Unit
WV-SW3H

Extended Sun Shade
WV-Q7118

WV-SW115 (PoE)

INDOOR/OUTDOOR SUPER DYNAMIC HD VANDAL-RESISTANT WALL MOUNT NETWORK CAMERA

- 720p HD images up to 30 fps
- 1.3 megapixel high-sensitivity MOS Sensor
- High-resolution recording by UniPhier®
- Full frame (up to 30 fps) transmission at 1280 x 960 image size
- Super Dynamic and Adaptive Black Stretch (ABS) technologies deliver 128x wider dynamic range compared to conventional cameras
- Face Super Dynamic technology ensures clear images of the face
- 2x extra zoom at VGA resolution
- Supports Power over Ethernet IEEE 802.3at
- Vandal-resistant mechanism for high reliability
- Low-profile design for discreet installation
- "Railway applications—electronics equipment used on rolling stock" compatible with EN50155
- Wide coverage (Horizontal: 104°, Vertical: 85°)
- IP66 rated water and dust-resistant
- Compatible with IEC 60529 measurement standard, Type 4x (UL50), NEMA 4x compliant
- ONVIF-compliant model
- Optional lens (see page 60)

WV-SW158 (PoE)

INDOOR/OUTDOOR SUPER DYNAMIC FULL HD VANDAL-RESISTANT DOME NETWORK CAMERA

- 1080p HD images up to 30 fps
- Super high resolution at Full HD / 1920 x 1080 created by 3.1 megapixel high-sensitivity MOS Sensor
- Full frame (up to 30 fps) transmission at 1920 x 1080 image size
- High sensitivity with Day & Night (Electrical) function: 1.2 lx (Color), 0.9 lx (B/W) at F2.2
- Super Dynamic and Adaptive Black Stretch (ABS) technologies deliver 128x wider dynamic range compared to conventional cameras
- Face Super Dynamic technology ensures clear images of the face
- 3x extra zoom at 640 x 360 resolution
- Full duplex bidirectional audio
- Vandal-resistant mechanism for high reliability
- Low-profile design for discreet installation
- "Railway applications—electronics equipment used on rolling stock" compatible with EN50155
- Wide coverage (Horizontal: 100°, Vertical: 81°)
- IP66 rated water and dust-resistant
- Compatible with IEC 60529 measurement standard, Type 4x (UL50), NEMA 4x compliant
- ONVIF-compliant model
- Optional lens (see page 60)

OPTIONAL ACCESSORY

Smoke Dome Cover
WV-CW6SA

Panasonic

WV-SW155
WV-SW155M (PoE)

INDOOR/OUTDOOR SUPER DYNAMIC HD VANDAL-RESISTANT DOME NETWORK CAMERAS

WV-SW155 — Network connector section (RJ45 connector)

WV-SW155M — Network connector section (M12 connector)

- 720p HD images up to 30 fps
- 1.3 megapixel high-sensitivity MOS Sensor
- High-resolution processing by UniPhier®
- Full frame (up to 30 fps) transmission at 1280 x 960 image size
- High sensitivity with Day & Night (Electrical) function: 0.8 lx (Color), 0.6 lx (B/W) at F2.2
- Super Dynamic and Adaptive Black Stretch (ABS) technologies deliver 128x wider dynamic range compared to conventional cameras
- Face Super Dynamic technology ensures clear images of the face
- 2x extra zoom at VGA resolution
- Supports Power over Ethernet IEEE 802.3at
- Vandal-resistant mechanism for high reliability
- Low-profile design for discreet installation
- "Railway applications—electronics equipment used on rolling stock" compatible with EN50155
- Wide coverage (Horizontal: 104°, Vertical: 85°)
- IP66 rated water and dust-resistant
- Compatible with IEC 60529 measurement standard, Type 4x (UL50), NEMA 4x compliant
- ONVIF-compliant model
- Optional lens (see page 60)

OPTIONAL ACCESSORY
Smoke Dome Cover
WV-CW6S

WV-SW152
WV-SW152M (PoE)

INDOOR/OUTDOOR SUPER DYNAMIC VANDAL-RESISTANT DOME NETWORK CAMERAS

WV-SW152 — Network connector section (RJ45 connector)

WV-SW152M — Network connector section (M12 connector)

- Super high resolution at SVGA / 800 x 600 created by 1.3 megapixel high-sensitivity MOS Sensor
- High-resolution processing by UniPhier®
- Full frame (up to 30 fps) transmission at SVGA (800 x 600) image size
- High sensitivity with Day & Night (Electrical) function: 0.6 lx (Color), 0.4 lx (B/W) at F2.2
- Super Dynamic and Adaptive Black Stretch (ABS) technologies deliver 128x wider dynamic range compared to conventional cameras
- Face Super Dynamic technology ensures clear images of the face
- 2x extra zoom at VGA resolution
- Supports Power over Ethernet IEEE 802.3at
- Vandal-resistant mechanism for high reliability
- Low-profile design for discreet installation
- "Railway applications—electronics equipment used on rolling stock" compatible with EN50155
- Wide coverage (Horizontal: 104°, Vertical: 85°)
- IP66 rated water and dust-resistant
- Compatible with IEC 60529 measurement standard, Type 4x (UL50), NEMA 4x compliant
- ONVIF-compliant model
- Optional lens (see page 60)

OPTIONAL ACCESSORY
Smoke Dome Cover
WV-CW6S

WV-SFR631L (12V DC or PoE)

INDOOR ENHANCED SUPER DYNAMIC FULL HD VANDAL-RESISTANT DOME NETWORK CAMERA

- **1080p Full HD images up to 60 fps***
- Approximately 1/3-inch, high-sensitivity MOS Sensor
- Multiple H.264 (high-profile) streams (max. 4 streams) and JPEG streams ensure simultaneous real-time monitoring and high-resolution recording by new enhanced UniPhier®, Panasonic's proprietary System LSI platform
- Maximum screen size is 2048 x 1536* @30fps, H.264
- **Enhanced Super Dynamic* and Adaptive Black Stretch (ABS) technologies deliver 133dB wider dynamic range compared to conventional cameras**
- **High sensitivity with Day & Night (IR) function: 0.04 lx (Color), 0.01 lx (B/W) at F1.3**
- **IR LED equipped: The equipped infrared LED makes it possible to take pictures at 0 lx**
- IR LED is controlled to match the environment, enabling the camera to provide clear images of human faces without white blur
- High-speed Auto Back Focus (ABF) and Motorized Zoom ensure easy installation
- Fog compensation function equipped as standard
- Double SDXC/SDHC/SD memory card slots
- ONVIF-compliant model
- Vandal-resistant mechanism for high reliability

*Super Dynamic function is automatically set off on 60 fps mode

OPTIONAL ACCESSORIES

Ceiling Mount Bracket
WV-Q105A

Ceiling Mount Bracket
WV-Q174B

Smoke Dome Cover
WV-CR1S

WV-SFR611L (12V DC or PoE)

INDOOR ENHANCED SUPER DYNAMIC HD VANDAL-RESISTANT DOME NETWORK CAMERA

- 720p HD images up to 60 fps
- Approximately 1/3-inch, high-sensitivity MOS Sensor
- Multiple H.264 (high-profile) streams (max. 4 streams) and JPEG streams ensure simultaneous real-time monitoring and high-resolution recording by new enhanced UniPhier®, Panasonic's proprietary System LSI platform
- Enhanced Super Dynamic and Adaptive Black Stretch (ABS) technologies deliver 133dB wider dynamic range compared to conventional cameras
- High sensitivity with Day & Night (IR) function: 0.01 lx (Color), 0.003 lx (B/W) at F1.3
- IR LED equipped: The equipped infrared LED makes it possible to take pictures at 0 lx
- IR LED is controlled to match the environment, enabling the camera to provide clear images of human faces without white blur
- Auto Back Focus (ABF) and Motorized Zoom ensure easy installation
- Fog compensation function equipped as standard
- Double SDXC/SDHC/SD memory card slots
- ONVIF-compliant model
- Vandal-resistant mechanism for high reliability

OPTIONAL ACCESSORIES

Ceiling Mount Bracket
WV-Q105A

Ceiling Mount Bracket
WV-Q174B

Smoke Dome Cover
WV-CR1S

WV-SF549 (12V DC or PoE)

INDOOR SUPER DYNAMIC FULL HD VANDAL-RESISTANT DOME NETWORK CAMERA

- 1080p Full HD images up to 30 fps and 360p images up to 30 fps simultaneously
- Super high resolution at Full HD / 1920 x 1080 created by 3.1 megapixel high-sensitivity MOS Sensor
- Combining enhanced UniPhier®, Panasonic's proprietary System LSI platform, and 2-area VIQS (Variable Image Quality on Specified Area) function can decrease network bandwidth
- Super Dynamic and Adaptive Black Stretch (ABS) technologies deliver 128x wider dynamic range compared to conventional cameras
- Face Super Dynamic technology ensures clear images of the face
- 3x extra optical zoom at 360p resolution (Picture Mode: 2 megapixel [16:9])
- High sensitivity with Day & Night (IR) function: 0.5 lx (Color), 0.06 lx (B/W) at F1.3
- Vandal-resistant mechanism for high reliability
- Smartphone monitoring
- ONVIF-compliant model
- Full duplex bidirectional audio
- SDXC/SDHC/SD memory card slot

OPTIONAL ACCESSORY

Ceiling Mount Bracket
WV-Q105

WV-SF548 (12V DC or PoE)

INDOOR SUPER DYNAMIC FULL HD VANDAL-RESISTANT DOME NETWORK CAMERA

- 1080p Full HD images up to 30 fps and 360p images up to 30 fps simultaneously
- Super high resolution at Full HD / 1920 x 1080 created by 3.1 megapixel high-sensitivity MOS Sensor
- Combining enhanced UniPhier®, Panasonic's proprietary System LSI platform, and 2-area VIQS (Variable Image Quality on Specified Area) function can decrease network bandwidth
- Super Dynamic and Adaptive Black Stretch (ABS) technologies deliver 128x wider dynamic range compared to conventional cameras
- Face Super Dynamic technology ensures clear images of the face
- 3x extra optical zoom at 360p resolution (Picture Mode: 2 megapixel [16:9])
- High sensitivity with Day & Night (Electrical) function: 0.5 lx (Color), 0.3 lx (B/W) at F1.3
- Vandal-resistant mechanism for high reliability
- Smartphone monitoring
- ONVIF-compliant model

OPTIONAL ACCESSORY

Ceiling Mount Bracket
WV-Q105

Panasonic

WV-SFR311 (12V DC or PoE)

INDOOR ENHANCED SUPER DYNAMIC HD VANDAL-RESISTANT DOME NETWORK CAMERA

- 720p HD images up to 60 fps*
- Approximately 1/3-inch, high-sensitivity MOS Sensor
- Multiple H.264 (high-profile) streams (max. 4 streams) and JPEG streams ensure simultaneous real-time monitoring and high-resolution recording by new enhanced UniPhier®, Panasonic's proprietary System LSI platform
- Enhanced Super Dynamic* and Adaptive Black Stretch (ABS) technologies deliver 133dB wider dynamic range compared to conventional cameras
- High sensitivity with Day & Night (IR) function: 0.01 lx (Color), 0.003 lx (B/W) at F1.6
- Auto Back Focus (ABF) ensures easy installation
- Fog compensation function equipped as standard
- Super Chroma Compensation function realizes a better color reproducibility even in low illumination
- Vandal-resistant mechanism for high reliability

*Super Dynamic function is automatically set off on 60 fps mode

OPTIONAL ACCESSORIES

Ceiling Mount Bracket
WV-Q105A

Ceiling Mount Bracket
WV-Q174B

Smoke Dome Cover
WV-CR1S

WV-SFR310 (12V DC or PoE)

INDOOR ENHANCED SUPER DYNAMIC HD VANDAL-RESISTANT DOME NETWORK CAMERA

- 720p HD images up to 60 fps*
- Approximately 1/3-inch, high-sensitivity MOS Sensor
- Multiple H.264 (high-profile) streams (max. 4 streams) and JPEG streams ensure simultaneous real-time monitoring and high-resolution recording by new enhanced UniPhier®, Panasonic's proprietary System LSI platform
- Enhanced Super Dynamic* and Adaptive Black Stretch (ABS) technologies deliver 133dB wider dynamic range compared to conventional cameras
- High sensitivity with Day & Night (Electrical) function: 0.01 lx (Color), 0.008 lx (B/W) at F1.6
- Fog compensation function equipped as standard
- Vandal-resistant mechanism for high reliability

*Super Dynamic function is automatically set off on 60 fps mode

OPTIONAL ACCESSORIES

Ceiling Mount Bracket
WV-Q105A

Ceiling Mount Bracket
WV-Q174B

Smoke Dome Cover
WV-CR1S

WV-SF346 (12V DC or PoE)

INDOOR HD VANDAL-RESISTANT DOME NETWORK CAMERA

- 720p HD images up to 30 fps
- Progressive scan 1.3 megapixel MOS Sensor
- High-resolution processing by UniPhier®
- Full frame (up to 30 fps) transmission at 1280 x 960 image size
- High sensitivity: 0.3 lx (Color), 0.2 lx (B/W) at F1.3 (Wide) / 0.019 lx (Color), 0.013 lx (B/W) at F1.3 with electronic sensitivity enhancement up to 16x
- Wide Dynamic Range and Adaptive Black Stretch (ABS) technologies deliver wider dynamic range compared to conventional cameras
- Face Wide Dynamic Range technology ensures clear images of the face
- 2x extra zoom at VGA resolution
- Dual H.264 / MPEG-4 and JPEG simultaneous stream output
- Power over Ethernet (PoE) IEEE 802.3af
- Auto Back Focus (ABF) ensures easy installation and stable focus in both color and B/W modes
- Smartphone monitoring
- TAA compliant and DIACAP pre-certified

OPTIONAL ACCESSORY

Ceiling Mount Bracket
WV-Q105

FIXED DOME NETWORK CAMERAS

WV-SF342 (12V DC or PoE)

INDOOR VANDAL-RESISTANT DOME NETWORK CAMERA

- Super high resolution at SVGA / 800 x 600 created by newly developed 1.3 megapixel high-sensitivity MOS Sensor
- Full frame (up to 30 fps) transmission at SVGA / 800 x 600 image size
- High sensitivity: 0.2 lx (Color), 0.13 lx (B/W) at F1.3 (Wide) / 0.013 lx (Color), 0.009 lx (B/W) at F1.3 with electronic sensitivity enhancement up to 16x
- Wide Dynamic Range and Adaptive Black Stretch (ABS) technologies deliver wider dynamic range compared to conventional cameras
- Face Wide Dynamic Range technology ensures clear images of the face
- 2x extra zoom at VGA resolution
- Dual H.264 / MPEG-4 and JPEG simultaneous stream output
- Power over Ethernet (PoE) IEEE 802.3af
- Smartphone monitoring

OPTIONAL ACCESSORY
Ceiling Mount Bracket
WV-Q105

WV-SFN631L (12V DC or PoE)

INDOOR ENHANCED SUPER DYNAMIC FULL HD DOME NETWORK CAMERA

- 1080p Full HD images up to 60 fps*
- Approximately 1/3-inch, high-sensitivity MOS Sensor
- Multiple H.264 (high-profile) streams (max. 4 streams) and JPEG streams ensure simultaneous real-time monitoring and high-resolution recording by new enhanced UniPhier®, Panasonic's proprietary System LSI platform
- Maximum screen size is 2048 x 1536* @30fps, H.264
- Enhanced Super Dynamic* and Adaptive Black Stretch (ABS) technologies deliver 133dB wider dynamic range compared to conventional cameras
- High sensitivity with Day & Night (IR) function: 0.04 lx (Color), 0.01 lx (B/W) at F1.3
- IR LED equipped: The equipped infrared LED makes it possible to take pictures at 0 lx
- IR LED is controlled to match the environment, enabling the camera to provide clear images of human faces without white blur
- High-speed Auto Back Focus (ABF) and Motorized Zoom ensure easy installation
- Fog compensation function equipped as standard
- Double SDXC/SDHC/SD memory card slots
- ONVIF-compliant model

*Super Dynamic function is automatically set off on 60 fps mode

OPTIONAL ACCESSORIES
Ceiling Mount Bracket
WV-Q105A

Ceiling Mount Bracket
WV-Q174B

Smoke Dome Cover
WV-CF5SA

WV-SFN611L (12V DC or PoE)

INDOOR ENHANCED SUPER DYNAMIC HD DOME NETWORK CAMERA

- 720p HD images up to 60 fps*
- Approximately 1/3-inch, high-sensitivity MOS Sensor
- Multiple H.264 (high-profile) streams (max. 4 streams) and JPEG streams ensure simultaneous real-time monitoring and high-resolution recording by new enhanced UniPhier®, Panasonic's proprietary System LSI platform
- Enhanced Super Dynamic* and Adaptive Black Stretch (ABS) technologies deliver 133dB wider dynamic range compared to conventional cameras
- High sensitivity with Day & Night (IR) function: 0.01 lx (Color), 0.003 lx (B/W) at F1.3
- IR LED equipped: The equipped infrared LED makes it possible to take pictures at 0 lx
- IR LED is controlled to match the environment, enabling the camera to provide clear images of human faces without white blur
- High-speed Auto Back Focus (ABF) and Motorized Zoom ensure easy installation
- Fog compensation function equipped as standard
- Double SDXC/SDHC/SD memory card slots
- ONVIF-compliant model

*Super Dynamic function is automatically set off on 60 fps mode

OPTIONAL ACCESSORIES
Ceiling Mount Bracket
WV-Q105A

Ceiling Mount Bracket
WV-Q174B

Smoke Dome Cover
WV-CF5SA

Panasonic

ONVIF S

WV-SF539 (12V DC or PoE)

INDOOR ENHANCED SUPER DYNAMIC FULL HD DOME NETWORK CAMERA

- 1080p Full HD images up to 30 fps and 360p images up to 30 fps simultaneously
- Super high resolution at Full HD / 1920 x 1080 created by 3.1 megapixel high-sensitivity MOS Sensor
- Combining enhanced UniPhier®, Panasonic's proprietary System LSI platform, and 2-area VIQS (Variable Image Quality on Specified Area) function can decrease network bandwidth
- Super Dynamic and Adaptive Black Stretch (ABS) technologies deliver 128x wider dynamic range compared to conventional cameras
- Face Super Dynamic technology ensures clear images of the face
- 3x extra optical zoom at 360p resolution (Picture Mode: 2 megapixel [16:9])
- High sensitivity with Day & Night (IR) function: 0.5 lx (Color), 0.06 lx (B/W) at F1.3
- Smartphone monitoring
- ONVIF-compliant model
- Full duplex bidirectional audio
- SDXC/SDHC/SD memory card slots

H.264 JPEG

HD 720/30p | day/night IR removable | Auto Back Focus | HLC | Fog Compensation | i-VMD (Optional)

VIQS

OPTIONAL ACCESSORIES

Embedded Ceiling Mount Bracket **WV-Q174B**

Sail White

Smoke Dome Cover **WV-CF5S**

Ceiling Mount Bracket **WV-Q105**

Indoor Pendant Mount Housing **PPMS1**

Black

Indoor Pendant Mount Housing **PPMS1B**

Beige

ONVIF S

WV-SF538 (12V DC or PoE)

INDOOR SUPER DYNAMIC FULL HD DOME NETWORK CAMERA

- 1080p Full HD images up to 30 fps and 360p images up to 30 fps simultaneously
- Super high resolution at Full HD / 1920 x 1080 created by 3.1 megapixel high-sensitivity MOS Sensor
- Super Dynamic and Adaptive Black Stretch (ABS) technologies deliver 128x wider dynamic range compared to conventional cameras
- Combining enhanced UniPhier®, Panasonic's proprietary System LSI platform, and 2-area VIQS (Variable Image Quality on Specified Area) function can decrease network bandwidth
- Face Super Dynamic technology ensures clear images of the face
- 3x extra optical zoom at 360p resolution (Picture Mode: 2 megapixel [16:9])
- High sensitivity with Day & Night (Electrical) function: 0.5 lx (Color), 0.3 lx (B/W) at F1.3
- Smartphone monitoring
- ONVIF-compliant model

H.264 JPEG

FULL HD 1080/30p | day/night | Auto Back Focus | HLC | Fog Compensation | i-VMD (Optional)

VIQS

OPTIONAL ACCESSORIES

Embedded Ceiling Mount Bracket **WV-Q174B**

Sail White

Smoke Dome Cover **WV-CF5S**

Ceiling Mount Bracket **WV-Q105**

Indoor Pendant Mount Housing **PPMS1**

Black

Indoor Pendant Mount Housing **PPMS1B**

Beige

ONVIF S

WV-SF438 (12V DC or PoE)

INDOOR 360-DEGREE SUPER DYNAMIC DOME NETWORK CAMERA

- 360-degree monitoring with a wide variety of transmission modes: Panorama, Double Panorama, Quad PTZ, Single PTZ and Quad streams (H.264/VGA)
- 1080p Full HD images up to 30 fps
- Multiple H.264 (high-profile) streams and JPEG streams ensure simultaneous real-time monitoring and high-resolution processing by enhanced UniPhier®
- Combining enhanced UniPhier®, Panasonic's proprietary System LSI platform, and 2-area VIQS (Variable Image Quality on Specified Area) function can decrease network bandwidth
- Smooth PTZ operation without mechanical action
- Built-in distortion correction function
- A fisheye lens control function realizes intelligible screen operation intuitively
- Super Dynamic and Adaptive Black Stretch (ABS) technologies deliver 128x wider dynamic range compared to conventional cameras
- High sensitivity with Day & Night (Electrical) function: 1.5 lx (Color), 1.2 lx (B/W) at F2.4

H.264 JPEG

FULL HD 1080/30p | day/night

VIQS

OPTIONAL ACCESSORY

Ceiling Mount Bracket **WV-Q105**

WV-SFN311 (12V DC or PoE)

INDOOR ENHANCED SUPER DYNAMIC HD DOME NETWORK CAMERA

- **720p HD images up to 60 fps***
- Approximately 1/3-inch, high-sensitivity MOS Sensor
- Multiple H.264 (high-profile) streams (max. 4 streams) and JPEG streams ensure simultaneous real-time monitoring and high-resolution recording by new enhanced UniPhier®, Panasonic's proprietary System LSI platform
- **Enhanced Super Dynamic* and Adaptive Black Stretch (ABS) technologies deliver 133dB wider dynamic range compared to conventional cameras**
- **High sensitivity with Day & Night (IR) function: 0.01 lx (Color), 0.003 lx (B/W) at F1.6**
- Auto Back Focus (ABF) ensures easy installation
- VIQS (Variable Image Quality on Specified area) technology allows the designated eight areas to retain higher image quality while the excluded area will have a decreased image quality, which enables the use of lower image file size and bit rate
- Fog compensation function equipped as standard
- Super Chroma Compensation function realizes a better color reproducibility even in low illumination
- Full duplex bidirectional audio

*Super Dynamic function is automatically set off on 60 fps mode

OPTIONAL ACCESSORIES

Ceiling Mount Bracket **WV-Q105A**

Ceiling Mount Bracket **WV-Q174B**

Smoke Dome Cover **WV-CF5SA**

WV-SFN310 (12V DC or PoE)

INDOOR ENHANCED SUPER DYNAMIC HD DOME NETWORK CAMERA

- **720p HD images up to 60 fps***
- Approximately 1/3-inch, high-sensitivity MOS Sensor
- Multiple H.264 (high-profile) streams (max. 4 streams) and JPEG streams ensure simultaneous real-time monitoring and high-resolution recording by new enhanced UniPhier®, Panasonic's proprietary System LSI platform
- **Enhanced Super Dynamic* and ABS (Adaptive Black Stretch) technologies deliver 133dB wider dynamic range compared to conventional cameras**
- **High sensitivity with Day & Night (Electrical) function: 0.01 lx (Color), 0.008 lx (B/W) at F1.6**
- VIQS (Variable Image Quality on Specified area) technology allows the designated eight areas to retain higher image quality while the excluded area will have a decreased image quality, which enables the use of lower image file size and bit rate
- Fog compensation function equipped as standard
- Full duplex bidirectional audio

*Super Dynamic function is automatically set off on 60 fps mode

OPTIONAL ACCESSORIES

Ceiling Mount Bracket **WV-Q105A**

Ceiling Mount Bracket **WV-Q174B**

Smoke Dome Cover **WV-CF5SA**

WV-SF336 (12V DC or PoE)

INDOOR HD DOME NETWORK CAMERA

- 720p HD images up to 30 fps
- Progressive scan 1.3 megapixel MOS Sensor
- High-resolution processing by UniPhier®
- Full frame (up to 30 fps) transmission at 1280 x 960 image size
- High sensitivity: 0.3 lx (Color), 0.2 lx (B/W) at F1.3 (Wide) / 0.019 lx (Color), 0.013 lx (B/W) at F1.3 with electronic sensitivity enhancement up to 16x
- Wide Dynamic Range and Adaptive Black Stretch (ABS) technologies deliver wider dynamic range compared to conventional cameras
- Face Wide Dynamic Range technology ensures clear images of the face
- 2x extra zoom at VGA resolution
- Dual H.264 / MPEG-4 and JPEG simultaneous stream output
- Power over Ethernet (PoE) IEEE 802.3af
- Auto Back Focus (ABF) ensures easy installation
- Smartphone monitoring
- TAA compliant and DIACAP pre-certified

OPTIONAL ACCESSORIES

Embedded Ceiling Mount Bracket **WV-Q174B**

Sail White

Smoke Dome Cover **WV-CF5S**

Ceiling Mount Bracket **WV-Q105**

Indoor Pendant Mount Housing **PPMS1**

Black

Indoor Pendant Mount Housing **PPMS1B**

Beige

Panasonic

WV-SF335 (12V DC or PoE)

INDOOR HD DOME NETWORK CAMERA

- 720p HD images up to 30 fps
- Progressive scan 1.3 megapixel MOS Sensor
- High-resolution processing by UniPhier®
- Full frame (up to 30 fps) transmission at 1280 x 960 image size
- High sensitivity: 0.3 lx (Color), 0.2 lx (B/W) at F1.3 (Wide) / 0.019 lx (Color), 0.013 lx (B/W) at F1.3 with electronic sensitivity enhancement up to 16x
- Wide Dynamic Range and Adaptive Black Stretch (ABS) technologies deliver wider dynamic range compared to conventional cameras
- Face Wide Dynamic Range technology ensures clear images of the face
- 2x extra zoom at VGA resolution
- Dual H.264 / MPEG-4 and JPEG simultaneous stream output
- Power over Ethernet (PoE) IEEE 802.3af
- Smartphone monitoring

OPTIONAL ACCESSORIES

Embedded Ceiling Mount Bracket **WV-Q174B** (Sail White)

Smoke Dome Cover **WV-CF5S**

Ceiling Mount Bracket **WV-Q105**

Indoor Pendant Mount Housing **PPMS1** (Black)

Indoor Pendant Mount Housing **PPMS1B** (Beige)

WV-SF332 (12V DC or PoE)

INDOOR DOME NETWORK CAMERA

- Progressive scan 1.3 megapixel MOS Sensor
- High-resolution processing by UniPhier®
- Up to 30 fps at SVGA / 800 x 600 image size
- High sensitivity: 0.2 lx (Color), 0.13 lx (B/W) at F1.3 (Wide) / 0.013 lx (Color), 0.009 lx (B/W) at F1.3 with electronic sensitivity enhancement up to 16x
- Wide Dynamic Range and Adaptive Black Stretch (ABS) technologies deliver wider dynamic range compared to conventional cameras
- Face Wide Dynamic Range technology ensures clear images of the face
- 2x extra zoom at VGA resolution
- Dual H.264 / MPEG-4 and JPEG simultaneous stream output
- Power over Ethernet (PoE) IEEE 802.3af
- Smartphone monitoring

OPTIONAL ACCESSORIES

Embedded Ceiling Mount Bracket **WV-Q174B** (Sail White)

Smoke Dome Cover **WV-CF5S**

Ceiling Mount Bracket **WV-Q105**

Indoor Pendant Mount Housing **PPMS1** (Black)

Indoor Pendant Mount Housing **PPMS1B** (Beige)

WV-SF138 (PoE)

INDOOR SUPER DYNAMIC FULL HD DOME NETWORK CAMERA

- 1080p HD images up to 30 fps
- Super high resolution at Full HD / 1920 x 1080 created by 3.1 megapixel high-sensitivity MOS Sensor
- High sensitivity with Day & Night (Electrical) function: 1.2 lx (Color), 0.9 lx (B/W) at F2.2
- Super Dynamic and Adaptive Black Stretch (ABS) technologies deliver 128x wider dynamic range compared to conventional cameras
- Face Super Dynamic technology ensures clear images of the face
- 3x extra zoom at 640 x 360 resolution
- Full duplex bidirectional audio
- Low-profile design for discreet installation
- Wide coverage (Horizontal: 100°, Vertical: 81°)
- ONVIF-compliant model
- Optional lens (see page 60)

OPTIONAL ACCESSORY

Smoke Dome Cover **WV-CW6SA**

FIXED DOME NETWORK CAMERAS

WV-SF135 (PoE)

INDOOR HD DOME NETWORK CAMERA

- 720p HD images up to 30 fps
- 1.3 megapixel high-sensitivity MOS Sensor
- High-resolution processing by UniPhier®
- High sensitivity with Day & Night (Electrical) function: 0.8 lx (Color), 0.6 lx (B/W) at F2.2
- 2x extra zoom at VGA resolution
- Supports Power over Ethernet (PoE) IEEE 802.3af
- Low-profile design for discreet installation
- Wide coverage (Horizontal: 104°, Vertical: 85°)
- ONVIF-compliant model
- Optional lens (see page 60)

OPTIONAL ACCESSORY

Smoke Dome Cover
WV-CW6S

WV-SF132 (PoE)

INDOOR DOME NETWORK CAMERA

- Progressive scan 320,000 pixel MOS Sensor
- High-resolution processing by UniPhier®
- High sensitivity with Day & Night (Electrical) function: 2.0 lx (Color), 1.3 lx (B/W) at F2.9
- Supports Power over Ethernet (PoE) IEEE 802.3af
- Low-profile design for discreet installation
- ONVIF-compliant model

OPTIONAL ACCESSORY

Smoke Dome Cover
WV-CW6S

WV-NW502S (12V DC or PoE)

INDOOR/OUTDOOR SUPER DYNAMIC HD VANDAL-RESISTANT DOME NETWORK CAMERA

- 1080p HD images up to 15 fps / 720p HD images up to 30 fps
- Full frame (up to 30 fps) transmission at 1280 x 960 image size*
- High sensitivity: 1.0 lx (Color), 0.08 lx (B/W) at F1.2 (Wide) / 0.06 lx (Color), 0.005 lx (B/W) at F1.2 (Wide) with electronic sensitivity enhancement up to 16x*
- Super Dynamic and Adaptive Black Stretch (ABS) technologies deliver 128x wider dynamic range compared to conventional cameras
- Face Super Dynamic technology ensures clear images of the face
- Up to 2,048 x 1,536 JPEG stream
- Dual H.264 / MPEG-4 and JPEG simultaneous stream output
- Auto Back Focus (ABF) ensures easy installation
- Progressive output
- Power over Ethernet (PoE) IEEE 802.3af
- Smartphone monitoring
- Mounting accessories: PWM484S, PHM484S, PCM484S and PPM484S (See page 56)

*1.3 megapixel mode

OPTIONAL ACCESSORIES

Embedded Ceiling Mount Bracket
WV-Q169A

Smoke Dome Cover
WV-CW4S

Extended Sun Shade
WV-Q7118

Lens: optional

IR LED: optional

RS-485 I/F: optional

NEW WV-SPN631 (12V DC or PoE)

ENHANCED SUPER DYNAMIC FULL HD NETWORK CAMERA

- **1080p Full HD images up to 60 fps***
- Approximately 1/3-inch, high-sensitivity MOS Sensor
- Multiple H.264 (high-profile) streams (max. 4 streams) and JPEG streams ensure simultaneous real-time monitoring and high-resolution recording by new enhanced UniPhier®, Panasonic's proprietary System LSI platform
- Maximum screen size is 2,048 x 1,536* @30fps, H.264
- **Enhanced Super Dynamic* and Adaptive Black Stretch (ABS) technologies deliver 133dB wider dynamic range compared to conventional cameras**
- **High sensitivity with Day & Night (IR) function: 0.04 lx (Color), 0.01 lx (B/W) at F1.4**
- IR LED equipped: The equipped infrared LED makes it possible to take pictures at 0 lx (optional)
- Supports extension units: Hardware functions can be added by mounting an extension unit (IR LED unit, RS-485 output unit) to the front or rear sides of the camera
- High-speed Auto Back Focus (ABF) ensures easy installation
- Double SDXC/SDHC/SD memory card slots
- Fog compensation function equipped as standard

*Super Dynamic function is automatically set off on 60 fps mode

OPTIONAL ACCESSORIES

IR LED
WV-SPN6FRL1

RS-485 I/F
WV-SPN6R481

Lens: optional

IR LED: optional

RS-485 I/F: optional

NEW WV-SPN611 (12V DC or PoE)

ENHANCED SUPER DYNAMIC HD NETWORK CAMERA

- **720p HD images up to 60 fps***
- Approximately 1/3-inch, high-sensitivity MOS Sensor
- Multiple H.264 (high-profile) streams (max. 4 streams) and JPEG streams ensure simultaneous real-time monitoring and high-resolution recording by new enhanced UniPhier®, Panasonic's proprietary System LSI platform
- **Enhanced Super Dynamic* and Adaptive Black Stretch (ABS) technologies deliver 133dB wider dynamic range compared to conventional cameras**
- **High sensitivity with Day & Night (IR) function: 0.01 lx (Color), 0.003 lx (B/W) at F1.4**
- IR LED equipped: The equipped infrared LED makes it possible to take pictures at 0 lx (optional)
- Supports extension units: Hardware functions can be added by mounting an extension unit (IR LED unit, RS-485 output unit) to the front or rear sides of the camera
- High-speed Auto Back Focus (ABF) ensures easy installation
- Double SDXC/SDHC/SD memory card slots
- Fog compensation function equipped as standard

*Super Dynamic function is automatically set off on 60 fps mode

OPTIONAL ACCESSORIES

IR LED
WV-SPN6FRL1

RS-485 I/F
WV-SPN6R481

Lens: optional

WV-SP509 (12V DC or PoE)

SUPER DYNAMIC FULL HD NETWORK CAMERA

- Super high resolution at Full HD / 1920 x 1080 created by 3.1 megapixel high-sensitivity MOS Sensor
- 1080p Full HD images up to 30 fps and 360p images up to 30 fps simultaneously
- Combining enhanced UniPhier®, Panasonic's proprietary System LSI platform, and 2-area VIQS (Variable Image Quality on Specified Area) function can decrease network bandwidth
- Super Dynamic and Adaptive Black Stretch (ABS) technologies deliver 128x wider dynamic range compared to conventional cameras
- 3x extra optical zoom at 360p resolution (Picture Mode: 2 megapixel [16:9])
- **High sensitivity with Day & Night (IR) function: 0.5 lx (Color), 0.06 lx (B/W) at F1.4**
- Auto Back Focus (ABF) ensures stable focus in both color and B/W modes
- Smartphone monitoring
- ONVIF-compliant model
- Full duplex bidirectional audio
- SDXC/SDHC/SD memory card slots
- Optional lens (see page 60)

AVAILABLE OCTOBER 2014 WV-SPN311 & WV-SPN310

FIXED NETWORK CAMERAS

Lens: optional

WV-SP508 (12V DC or PoE)

SUPER DYNAMIC FULL HD NETWORK CAMERA

- Super high resolution at Full HD / 1920 x 1080 created by 3.1 megapixel high-sensitivity MOS Sensor
- 1080p Full HD images up to 30 fps and 360p images up to 30 fps simultaneously
- Combining enhanced UniPhier®, Panasonic's proprietary System LSI platform, and 2-area VIQS (Variable Image Quality on Specified Area) function can decrease network bandwidth
- Super Dynamic and Adaptive Black Stretch (ABS) technologies deliver 128x wider dynamic range compared to conventional cameras
- 3x extra optical zoom at 360p resolution (Picture Mode: 2 megapixel [16:9])
- **High sensitivity with Day & Night (Electrical) function: 0.5 lx (Color), 0.06 lx (B/W) at F1.4**
- Auto Back Focus (ABF) ensures stable focus in both color and B/W modes
- Smartphone monitoring
- ONVIF-compliant model
- Optional lens (see page 60)

Lens: optional

WV-SP306 (12V DC or PoE)

HD NETWORK CAMERA

- 720p HD images up to 30 fps
- Progressive scan 1.3 megapixel MOS Sensor
- Multiple H.264 (high-profile) streams by UniPhier®
- Full frame (up to 30 fps) transmission at 1280 x 960 image size
- High sensitivity with Day & Night (IR) function: 0.3 lx (Color), 0.05 lx (B/W) at F1.4 / 0.019 lx (Color), 0.003 lx (B/W) at F1.4 with electronic sensitivity enhancement up to 16x
- Wide Dynamic Range and Adaptive Black Stretch (ABS) technologies deliver wider dynamic range compared to conventional cameras
- Face Wide Dynamic Range technology ensures clear images of the face
- 2x extra zoom at VGA resolution
- Dual H.264 / MPEG-4 and JPEG simultaneous stream output
- Power over Ethernet (PoE) IEEE 802.3af
- Auto Back Focus (ABF) ensures easy installation
- Smartphone monitoring
- TAA compliant and DIACAP pre-certified
- Optional lens (see page 60)

Lens: optional

WV-SP305 (12V DC or PoE)

HD NETWORK CAMERA

- 720p HD images up to 30 fps
- Progressive scan 1.3 megapixel MOS Sensor
- Multiple H.264 (high-profile) streams by UniPhier®
- Full frame (up to 30 fps) transmission at 1280 x 960 image size
- High sensitivity: 0.3 lx (Color), 0.2 lx (B/W) at F1.4 / 0.019 lx (Color), 0.013 lx (B/W) at F1.4 with electronic sensitivity enhancement up to 16x
- Wide Dynamic Range and Adaptive Black Stretch (ABS) technologies deliver wider dynamic range compared to conventional cameras
- Face Wide Dynamic Range technology ensures clear images of the face
- 2x extra zoom at VGA resolution
- Dual H.264 / MPEG-4 and JPEG simultaneous stream output
- Power over Ethernet (PoE) IEEE 802.3af
- Smartphone monitoring
- Optional lens (see page 60)

Lens: optional

WV-SP302 (12V DC or PoE)

NETWORK CAMERA

- Progressive scan 1.3 megapixel MOS Sensor
- Multiple H.264 (high-profile) streams by UniPhier®
- Up to 30 fps at SVGA / 800 x 600 image size
- High sensitivity: 0.2 lx (Color), 0.13 lx (B/W) at F1.4 / 0.013 lx (Color), 0.009 lx (B/W) at F1.4 with electronic sensitivity enhancement up to 16x
- Wide Dynamic Range and Adaptive Black Stretch (ABS) technologies deliver wider dynamic range compared to conventional cameras
- Face Wide Dynamic Range technology ensures clear images of the face
- 2x extra zoom at VGA resolution
- Dual H.264 / MPEG-4 and JPEG simultaneous stream output
- Power over Ethernet (PoE) IEEE 802.3af
- Smartphone monitoring

WV-SP105 (12V DC or PoE)

HD NETWORK CAMERA

- 720p HD images up to 30 fps
- Progressive scan 1.3 megapixel MOS Sensor
- Multiple H.264 (high-profile) streams by UniPhier®
- Full frame (up to 30 fps) transmission at 1280 x 960 image size
- High sensitivity: 0.8 lx (Color), 0.4 lx (B/W) at F2.2 / 0.05 lx (Color), 0.03 lx (B/W) at F2.2 (Wide) with electronic sensitivity enhancement up to 16x
- 2x extra zoom at VGA resolution
- Dual H.264 and JPEG simultaneous stream output
- Power over Ethernet (PoE) IEEE 802.3af
- Smartphone monitoring

Panasonic

WV-SP102 (12V DC or PoE)

NETWORK CAMERA

- Progressive scan 320,000 pixel MOS Sensor
- Multiple H.264 (high-profile) streams by UniPhier®
- Full frame (up to 30 fps) transmission at VGA (640 x 480) image size
- High sensitivity: 2.0 lx (Color), 1.3 lx (B/W) at F2.0 / 0.3 lx (Color), 0.16 lx (B/W) at F2.0 (Wide) with electronic sensitivity enhancement up to 8x
- Dual H.264 and JPEG simultaneous stream output
- Power over Ethernet (PoE) IEEE 802.3af
- Smartphone monitoring

WV-SW316LA (12V DC or PoE)

SUPER DYNAMIC WEATHER-RESISTANT HD NETWORK CAMERA

- 720p HD images up to 30 fps
- Newly developed 1.3 megapixel high-sensitivity MOS Sensor
- Multiple H.264 (high-profile) streams by UniPhier®
- Full frame (up to 30 fps) transmission at 1280 x 960 image size
- Face Super Dynamic technology ensures clear images of the face
- Super Dynamic and Adaptive Black Stretch (ABS) technologies deliver 128x wider dynamic range compared to conventional cameras
- Up to 6.4x extra optical zoom at VGA resolution
- **IR LED equipped: The equipped infrared LED makes it possible to take pictures at 0 lx**
- Smartphone monitoring
- IP66 rated water and dust-resistant
- Compatible with IEC 60529 measurement standard, Type 4X (UL50), NEMA 4X compliant
- Fog compensation function equipped as standard
- ONVIF-compliant model
- TAA compliant and DIACAP pre-certified
- Includes WV-Q120 backbox

OPTIONAL ACCESSORY
Pole Mount Adapter
PAPM3

WV-SW316A (12V DC or PoE)

SUPER DYNAMIC WEATHER-RESISTANT HD NETWORK CAMERA

- 720p HD images up to 30 fps
- Newly developed 1.3 megapixel high-sensitivity MOS Sensor
- Multiple H.264 (high-profile) streams by UniPhier®
- Full frame (up to 30 fps) transmission at 1280 x 960 image size
- Face Super Dynamic technology ensures clear images of the face
- Super Dynamic and Adaptive Black Stretch (ABS) technologies deliver 128x wider dynamic range compared to conventional cameras
- Up to 6.4x extra optical zoom at VGA resolution
- Smartphone monitoring
- IP66 rated water and dust-resistant
- Compatible with IEC 60529 measurement standard, Type 4X (UL50), NEMA 4X compliant
- Fog compensation function equipped as standard
- ONVIF-compliant model
- Includes WV-Q120 backbox

OPTIONAL ACCESSORY
Pole Mount Adapter
PAPM3

WV-SW314A (PoE)

SUPER DYNAMIC WEATHER-RESISTANT HD NETWORK CAMERA

- 720p HD images up to 30 fps
- Newly developed 1.3 megapixel high-sensitivity MOS Sensor
- Multiple H.264 (high-profile) streams by UniPhier®
- Full frame (up to 30 fps) transmission at 1280 x 960 image size
- Face Super Dynamic technology ensures clear images of the face
- Super Dynamic and Adaptive Black Stretch (ABS) technologies deliver 128x wider dynamic range compared to conventional cameras
- Up to 7.2x extra optical zoom at VGA resolution
- Smartphone monitoring
- IP66 rated water and dust-resistant
- Compatible with IEC 60529 measurement standard, Type 4X (UL50), NEMA 4X compliant
- Fog compensation function equipped as standard
- ONVIF-compliant model
- Includes WV-Q120 backbox

OPTIONAL ACCESSORY
Pole Mount Adapter
PAPM3

AVAILABLE NOVEMBER 2014 **WV-SPW631LT, WV-SPW631L, WV-SPW611L & WV-SPW611**

NETWORK CAMERAS

WV-SW175 (12V DC or PoE)

OUTDOOR PAN-TILT NETWORK CAMERA

- 720p HD images up to 30 fps
- 1.3 megapixel high-sensitivity MOS Sensor
- Full frame (up to 30 fps) transmission at 1280 x 960 image size
- 2x extra zoom at VGA resolution
- Pan-tilt and Preset Map Shot function realize wide-range monitoring (Horizontal angle: 180°, Vertical angle: 123°)
- IP55 rated water and dust-resistant; compatible with IEC 60529
- Smartphone monitoring
- ONVIF-compliant model

WV-SW174W (12V DC)

OUTDOOR PAN-TILT WIRELESS NETWORK CAMERA

- 720p HD images up to 30 fps
- 1.3 megapixel high-sensitivity MOS Sensor
- Multiple H.264 (high-profile) streams by UniPhier®
- Full frame (up to 30 fps) transmission at 1280 x 960 image size
- Pan-tilt and Preset Map Shot function realize wide-range monitoring (Horizontal angle: 180°, Vertical angle: 123°)
- 2x extra zoom at VGA resolution
- Wireless LAN function (IEEE802.11 n/g/b)
- Smartphone monitoring
- ONVIF-compliant model

WV-SW172 (12V DC or PoE)

OUTDOOR PAN-TILT NETWORK CAMERA

- 1.3 megapixel high-sensitivity MOS Sensor
- Full frame (up to 30 fps) transmission at SVGA (800 x 600) image size
- Pan-tilt and Preset Map Shot function realize wide-range monitoring (Horizontal angle: 180°, Vertical angle: 123°)
- 2x extra zoom at VGA resolution
- IP55 rated water and dust-resistant; compatible with IEC 60529
- Smartphone monitoring
- ONVIF-compliant model

WV-ST165 (12V DC or PoE)

INDOOR PAN-TILT NETWORK CAMERA

- 720p HD images up to 30 fps
- 1.3 megapixel high-sensitivity MOS Sensor
- Multiple H.264 (high-profile) streams by UniPhier®
- Full frame (up to 30 fps) transmission at 1280 x 960 image size
- 2x extra zoom at VGA resolution
- Pan-tilt and Preset Map Shot function realize wide-range monitoring (Horizontal angle: 180°, Vertical angle: 123°)
- Smartphone monitoring
- ONVIF-compliant model

WV-ST162 (12V DC or PoE)

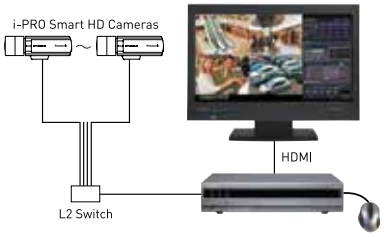
INDOOR PAN-TILT NETWORK CAMERA

- 1.3 megapixel high-sensitivity MOS Sensor
- Multiple H.264 (high-profile) streams by UniPhier®
- Full frame (up to 30 fps) transmission at SVGA (800 x 600) image size
- 2x extra zoom at VGA resolution
- Pan-tilt and Preset Map Shot function realize wide-range monitoring (Horizontal angle: 180°, Vertical angle: 123°)
- Smartphone monitoring
- ONVIF-compliant model

Panasonic

WJ-NV200

EASY OPERATION AND SETUP WITHOUT PC



OPTIONAL ACCESSORY

Rack Mount Kit
PRMKNV200

WJ-NV200 (120V AC)

NETWORK DISK RECORDER

WJ-NV200V (120V AC, for NTSC only)

NETWORK DISK RECORDER WITH DVD DRIVE

- H.264, MPEG-4 and JPEG multi-format
- Up to 16 network cameras can be connected and recorded
- Quick setup by automatic camera detection and simple setup wizard without the use of PC
- Simple mouse operation by new GUI without the use of PC
- Supports the Full HD output (HDMI)
- ONVIF NVC (Network Video Client), core spec Ver.1.02 conformant

To use this product, it is necessary to register the license (Registration Key) for Additional Business Intelligence Kit into the NV200 in use.

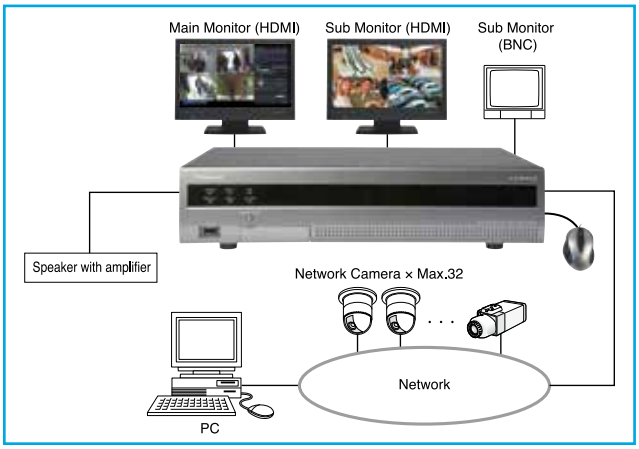
WJ-NVF30/ WJ-NVF20

ADDITIONAL BUSINESS INTELLIGENCE KIT

- New statistical processing functions, such as "people counting" and "face matching / age and gender judgment"
- The number of detected human faces can be displayed on a statistical chart separated by age and gender for a single day or a specified time period
- Age distribution groups are displayed by separate colors
- The statistical data can be saved as a CSV file* on an SDHC/SD memory card or on a PC connected over a network
- Real-time face matching function by matching registered face images with a face displayed on live images

*CSV file: A file that can be edited using a spreadsheet software, such as Microsoft® Office Excel®

EASY OPERATION AND SETUP WITHOUT PC



WJ-NV300 (120V AC)

NETWORK DISK RECORDER

- H.264 and JPEG multi format
- 16 network cameras can be connected and recorded as default
- **Up to 32* network cameras can be connected and recorded**
- Quick setup by automatic camera detection and simple setup wizard without the use of PC
- Simple mouse operation by new GUI without the use of PC
- Supports the Full HD output (HDMI)
- HDD capacity is expandable up to 20 HDD slots (2 HDD slots in the main unit and 2 optional WJ-HDE400 Hard Disk Extension Units, each with 9 HDD slots)
- WJ-NVE30 (8 camera license extension) also available (optional)
- WJ-NVF30 Additional Business Intelligence Kit adds face matching feature, people counting, and age/gender reporting to WJ-NV300 (optional)

*Two additional camera kits (WJ-NVE30) are necessary

OPTIONAL ACCESSORIES

Hard Disk Extension Unit
WJ-HDE400

Rack Mount Kit
PRMKNV200

NETWORK VIDEO RECORDERS

RSA® and BSAFE™
RSA and BSAFE are either registered trademarks or trademarks of RSA Security Inc. in the U.S.

WJ-ND400 (120V AC)

NETWORK DISK RECORDER

- H.264, MPEG-4 and JPEG multi-format
- Up to 64 network cameras can be connected and recorded (video and audio)
- Various recording modes: manual, schedule including event (pre/post), emergency
- VMD search (works with i-PRO cameras or WJ-NT314)
- Up to 54 HDD slots, with nine HDD slots in the main unit and five WJ-HDE400 optional extension units, each with nine HDD slots
- RAID5/6, embedded OS, data encryption for reliability

OPTIONAL ACCESSORIES

Hard Disk Extension Unit
WJ-HDE400

4TB HDD
Canister/4000

3TB HDD
Canister/3000

2TB HDD
Canister/2000

NETWORK CONVERTER

Center Adapter

Camera Adapter

BY-HPE11KTA

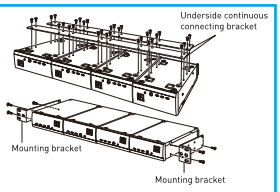
COAXIAL-LAN CONVERTER WITH POE FUNCTION

- Easy migration from analog to IP system with existing coaxial cable
- Power over Ethernet (PoE) IEEE 802.3af
- Up to 500 m (1,640 feet, 5 inches)*1 for PoE connections, and 2 km (6,561 feet, 8 inches) for non-PoE connections (when used with RG-6/U coaxial cable)
- 35 Mbps or over for TCP*2, and 45 Mbps or over for UDP connections (when used with RG-6/U coaxial cable, and for distances under 2 km [6,561 feet, 8 inches])
- No setup required

*1 When connected to a Panasonic network camera
*2 Measured using Linux® FTP

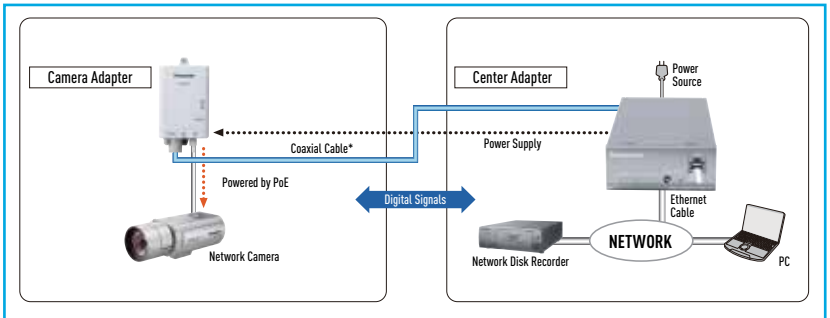
OPTIONAL ACCESSORIES

Rack Mount Connecting Fitting
BY-HCA10
(for mounting three or four Center Adapters)



POE Plus Injector
IEEE 802.3at/IEEE 802.3af
PPOEP01I01
Supports indoor and outdoor PTZ cameras

SYSTEM EXAMPLE



*With PoE function: 500m (1,640 feet, 5 inches) / Without PoE function: 2km (6,561 feet, 8 inches)

Panasonic

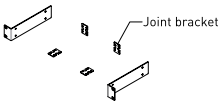
WJ-GXE500 (12V DC or PoE)

4 CH H.264 VIDEO ENCODER

- Up to four analog cameras can be connected
- Panasonic PTZ over-the-coaxial camera control
- Full frame H.264 transmission for all four channels
- Dual H.264 / MPEG-4 and JPEG simultaneous stream output at VGA/D1 image size
- Face detection function detects the position of human faces (CH1 only)
- Progressive output
- Bidirectional audio (1CH)
- Power over Ethernet (PoE) IEEE 802.3af

OPTIONAL ACCESSORY

EIA 48.26 cm (19 inch)
Rack Mount Bracket
WV-Q204/2S
(for mounting three WJ-GXE500)



WJ-GXE100 (12V DC or PoE)

1 CH H.264 VIDEO ENCODER

- Full frame H.264 transmission
- H.264 and JPEG triple encoding: A total of three outputs, comprising two H.264 outputs and one JPEG output, can be provided
- Motion adaptive interlace/progressive conversion allows every frame to be clear even when the subject is moving
- Open command conversion table for RS485 ensures the control of various manufacturers' PTZ cameras
- Camera title display: Up to 20 alphanumeric characters embedded in the image
- PoE: The power will be supplied by simply connecting a LAN cable (IEEE 802.3af compliant); 12V DC power supply* is also available
- Small size; can be installed into the outdoor housing with a camera

*For UL listed model(s), only connect 12V DC Class 2 power supply.

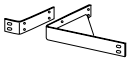
WJ-GXD400

(12V DC, 100V-240V AC adapter attached)

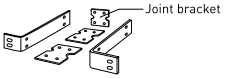
MULTI-CHANNEL HIGH-DEFINITION VIDEO DECODER

- Up to 256 cameras, including cameras connected to the i-PRO Network Video Encoder (WJ-GXE500), can be registered
- HDMI interface supporting 1920 x 1080 display size
- 1x 4VGA image with 2x VGA images or 6x VGA images can be displayed in multiscreen mode
- Each of the VGA images can be displayed at 25 frames/sec
- Superior reliability and installation flexibility with an embedded OS
- Up to 64 camera groups can be registered and called up in response to power on, group sequence and schedule program

OPTIONAL ACCESSORIES



EIA 48.26 cm (19 inch)
Rack Mount Bracket
WV-Q204/1S
(for mounting one WJ-GXD400)



EIA 48.26 cm (19 inch)
Rack Mount Bracket
WV-Q204/2S
(for mounting two WJ-GXD400)

*Only three pieces of joint brackets are necessary. One piece of joint bracket will be unnecessary.

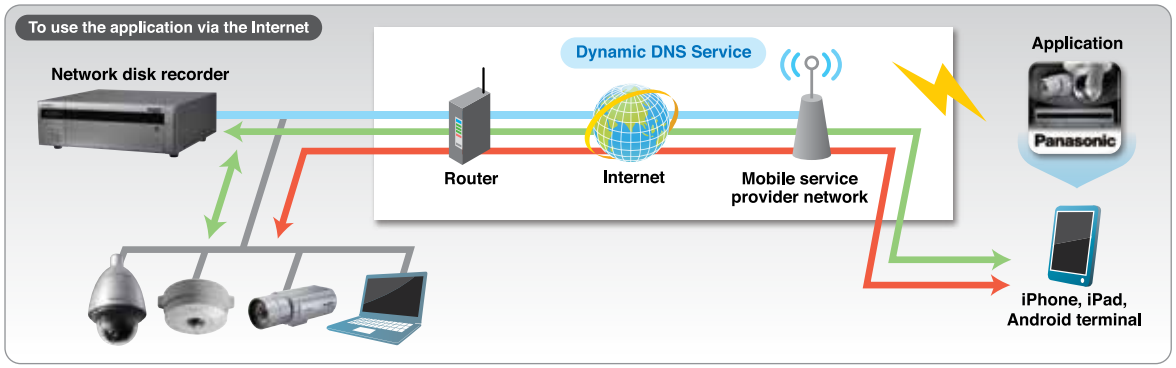
Panasonic Security Viewer App VERSION 2.1

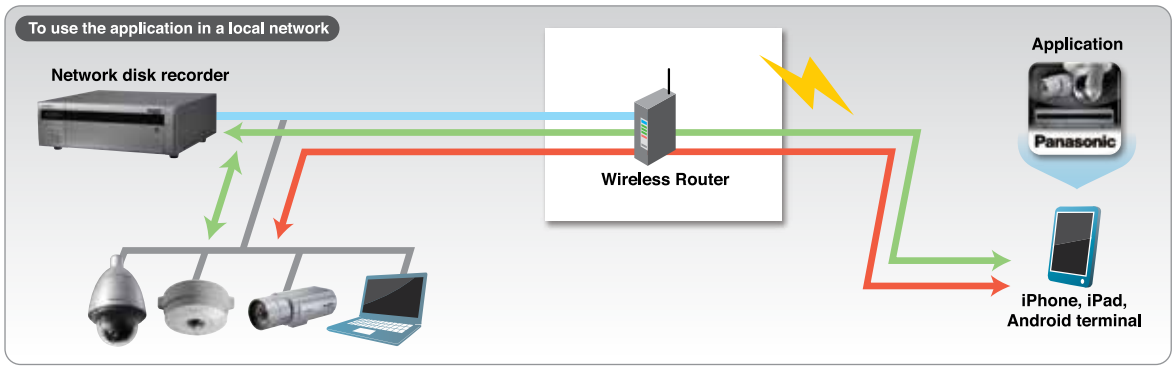
Panasonic Security Viewer is an application that can view the images from i-PRO SmartHD Series Network Cameras and Network Disk Recorders (WJ-NV200/WJ-NV300/WJ-ND400/WJ-HD716/WJ-HD616).

By connecting a terminal to a 3G/4G or wireless LAN (Wi-Fi), it is possible to view live images from cameras and recorded images stored on recorders.

Preface

To use the **Panasonic Security Viewer** via the Internet, it is recommended to register in the Dynamic DNS (DDNS) service.





A PC is required to register a Dynamic DNS Service and configure the settings of the router.

- Download the Panasonic Security Viewer application on the Google play™ store, Apple App Store.

Direct Camera connection
- Live monitoring

Via recorder
- Live monitoring
- Playback

Features of the application

Network disk recorder

- Live image: Live images from the network cameras connected to the recorder
- Playing back recorded images: To play back the images stored on the recorder
  * Re-encoding playback images for smartphones or tablet PC screen size/ frame rate
- Time & date search: To search the images to play back based on the time & date

Network camera

- Network camera control*
  (Resolution switchover, focus, panning/tilting, zoom, preset position switchover)
  * Depends on the network camera functions.

Android™

Outline of the application

Application name	**Panasonic Security Viewer version 2.1**
OS	Android™ OS 4.0 is recommended.
How to get the application	Download from the Google play™ store.
Date to start the service	End of June
Operation check terminals	Panasonic Toughpad FZ-A1, JT-B1, Galaxy S2, Galaxy S3, Galaxy S4

- **Download the application from here.**

Android™ **http://security.panasonic.com/pss/security/psv/android/index.html**

iPhone®/iPad®

Outline of the application

Application name	**Panasonic Security Viewer version 2.1**
OS	iOS 5.1 or later
How to get the application	Download from the App Store.
Date to start the service	End of June
Operation check terminals	iPhone4s, iPhone5, iPhone5S, iPad2, iPod touch (5th)

- **Download the application from here.**

iPhone / iPad **http://security.panasonic.com/pss/security/psv/ios/index.html**

Panasonic

ASR500 Video Surveillance Recording Server

SCALABLE SOFTWARE-BASED VIDEO RECORDING SERVER ENABLES A COMPLETE VIDEO MANAGEMENT SYSTEM WHEN USED WITH PANASONIC ASM200 AND ASM970 CLIENT APPLICATIONS

H.264 MPEG-4 AVC / MPEG JPEG
FULL HD 1080/60p
(As of September 2014)

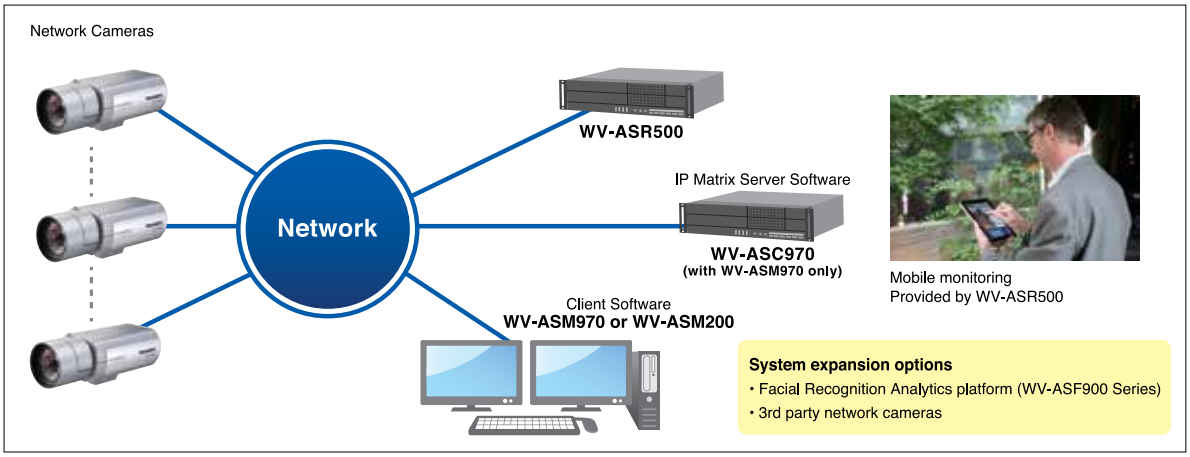
RECORDER

- Expandable software-based video recording platform using Windows® Server Platform
- Channel capacity up to 128 channels
- Powerful and flexible pre/post-alarm recording
- Multi-camera, time-synchronized recording playback
- Event and time-based search functions
- Video export and archiving options

VMS SYSTEM

- Full VMS capability when deployed with Panasonic ASM200/970 clients
- Wide support for IP cameras and encoders from multiple manufacturers
- Broad integration with POS/ATM/EAS Platforms
- Mobile client available for iPhone®/iPod Touch®/iPad® and Android™ phones and tablets
- All systems pre-integrated and tested server platforms with flexible storage configurations
- Flexible channel expansion licensing

Advanced configuration



Recording Software (Channel License) per server: WV-ASRE501(1ch), WV-ASRE516(16ch), WV-ASRE532(32ch), WV-ASRE564(64ch)

PMPU2000 VERSION 10

IP MATRIX APPLIANCE

- Easy and smooth integration from analog to IP system
- Flexible system design: analog, IP and hybrid analog/IP
- Up to 64 recorders, 1,024 monitors and 2,048 cameras (in case with encoder) can be registered
- Camera/sequence/monitor selection, camera control and recorder control can be made with the optional system controller WV-CU950
- Supported recorders: WJ-ND400 series, WJ-ND300 series, WJ-ND200 series, WJ-NV200 series, WJ-HD300 series, WJ-RT416 series, WJ-HD616/716 series
- Redundant function supported (redundant function can consist of two WV-ASC970 servers as main server and standby server)
- Up to 64 ND400 recorders can be registered as standby recorder for backup purpose of serious problems on main recorders

The pictures to the left are for illustration purposes only.

WV-ASM970 VERSION 10

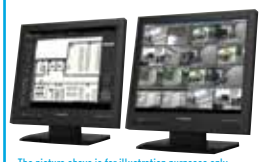
IP MATRIX CLIENT SOFTWARE

- Multi-monitor option enables simultaneous use of operation screen and monitor screen (1 / 4 / 7 / 9 / 10 / 13 / 16 split) on a dedicated monitor; two-monitor operation is also available
- Up to 30 ips/camera can be displayed in 16 split screens in MPEG-4 2 Mbps mode (depending on the camera, camera setup and PC performance)
- Up to 30 ips/camera can be displayed in 16 split screens in H.264 1.5 Mbps mode with VGA (depending on the camera, camera setup and PC performance)
- Image resolution dynamically changes depending on the screen mode: VGA for quad screen, QVGA for 16 split screens, enabling optimum network usage (depending on the camera mode)
- Decoder mode supported (WV-ASM970 can be used as PC-based decoder instead of GXD400)
- WV-ASE902: Max. 16 screen x 4 monitor support

SYSTEM COMPONENTS

IP Matrix Client Software

WV-ASM970



The picture above is for illustration purposes only.

Ethernet System Controller with 3D-Joystick and Jog/Shuttle

WV-CU950

WV-ASM200

I-PRO MANAGEMENT SOFTWARE

- Supports 16:9 video stream and 16:9 HD monitor; displays 16:9 and 4:3 videos from IP cameras on the same screen
- H.264 recording data in the SD/SDHC memory card can be downloaded
- Convert file format from n3r (proprietary format) to MP4 and WMV
- Up to 100 recorders, 64 encoders and 256 directly connected cameras can be registered
- Up to 6,400 cameras registered in the recorders and 256 cameras registered in the encoders are automatically registered in the WV-ASM200 (the number of cameras depends on the recorder and encoder)
- Up to 16x 30 ips/camera images can be displayed in H.264 1.5 Mbps mode
- Fisheye image correction/de-warp
- Software License Products
  –WV-SAE100W: Face Detection XML
  –WV-SAE200W: iVMD

WV-ASE201W / ASE202W / ASE203W / ASE204W / ASE205W / ASE231W

EXTENSION SOFTWARE

- WV-ASE201W: Three monitors, system controller (WV-CU950) support
- WV-ASE202W: Max. 64 screen support
- WV-ASE203W: Increases number of recorder registration
- WV-ASE204W: Supports WJ-GXD400
- WV-ASE205W: Image compensation (Fog/Snow)
- WV-ASE231W: Client for WV-ASF900

OPTIONAL ACCESSORY

Ethernet System Controller with 3D-Joystick and Jog/Shuttle

WV-CU950

(WV-ASE201W is necessary)

H.264 MPEG-4 JPEG

BB-HNP17A

NETWORK CAMERA RECORDER WITH VIEWER SOFTWARE

- H.264, MPEG-4 and JPEG recording
- Supports the recording and playback of H.264 i-PRO IP cameras
- Supports resolutions of 1280 × 960
- Remote access function
- Up to 64 cameras register
- Event detection recording
- Flexible layout
- Preset sequence
- Timer recording with preset designation
- Pop-up display
- Time-specified color night view

Panasonic

WV-ASF900 Series

FACIAL RECOGNITION ANALYTICS PLATFORM

FACIAL RECOGNITION ANALYTICS PLATFORM RUNNING IN THE VIDEO SURVEILLANCE SYSTEM

- Add-on face matching function: Add the face matching function by simply adding the necessary devices and the software
- Up to 20 cameras can be connected to each server

FACE SEARCH

- Face images that the camera detects are stored and can be searched later
- By searching the face database, you can display the results of each camera in chronological order and find movement and location of persons
- Specify camera or date in detected face images and display the result in the list in similar order

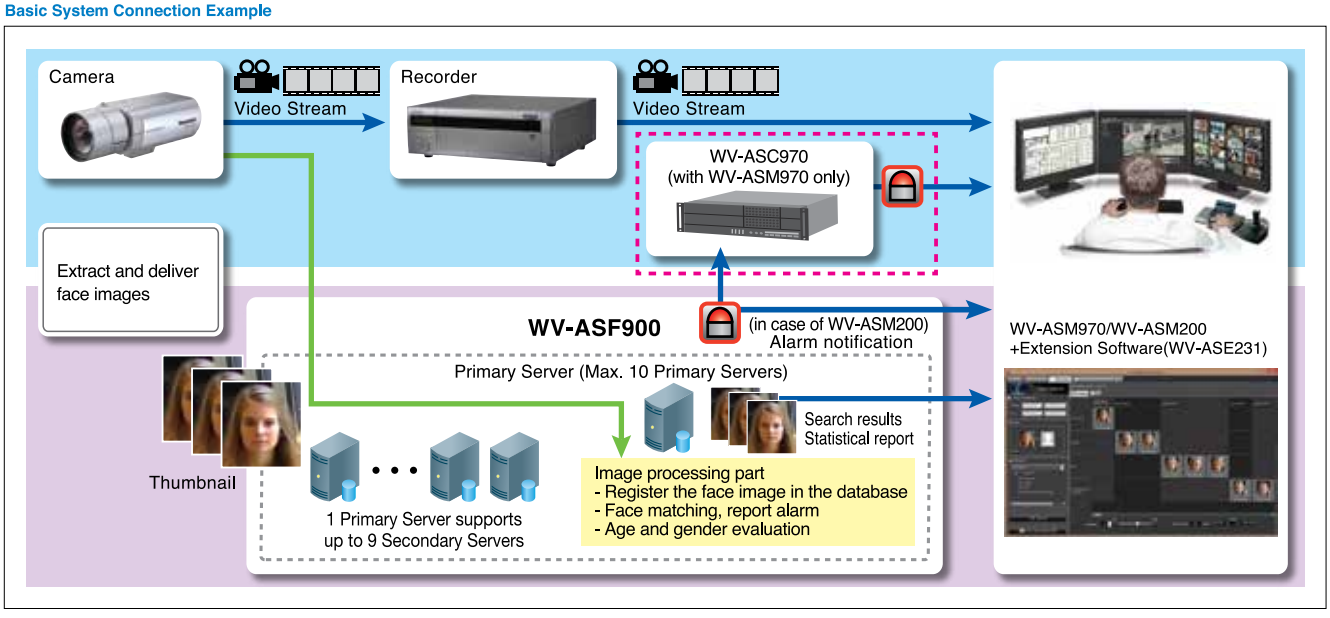
FACE MATCHING

- When faces are matched with registered people, alarm of face matching is output in real-time, and an alarm history is displayed in the list
- Double clicking on facial alarm notification can play back video segment on the control monitor

PEOPLE COUNTING, AGE AND GENDER STATISTICS

- Count people with detected faces and evaluate their age and gender
- Display the result on the screen with statistical graph
- The statistical data can be saved as a CSV file for analytical use

Basic System Connection Example



ANALOG PRODUCTS

DOME CAMERAS

WV-CW594A (24V AC: NTSC)

SUPER DYNAMIC 6 WEATHER-RESISTANT PTZ DOME CAMERA

- High resolution: 650 TV lines
- High sensitivity: 0.5 lx (Color), 0.04 lx (B/W) at F1.4 (Wide)
- Super Dynamic 6 technology delivers 128x (NTSC) / 160x (PAL) wider dynamic range compared to conventional cameras
- Standard auto tracking
- IP66 rated water and dust-resistant
- 36x optical zoom lens with 20x digital zoom
- ClearSight™ dome coating
- TAA compliant and DIACAP pre-certified

OPTIONAL ACCESSORIES

Gooseneck Wall Mount **PWM20G** (Black)

Gooseneck Wall Mount **PWM20GB** (Beige)

Gooseneck Wall Mount **PWM20GS** (Silver)

Additional mounting accessories can be found on page 56.

WV-CS584 (24V AC: NTSC)

SUPER DYNAMIC 6 DAY & NIGHT DOME CAMERA

- High resolution: 650 TV lines
- High sensitivity: 0.5 lx (Color), 0.04 lx (B/W) at F1.4 (Wide)
- Super Dynamic 6 technology delivers 128x (NTSC) / 160x (PAL) wider dynamic range compared to conventional cameras
- Standard auto tracking
- 36x optical zoom lens with 20x digital zoom
- TAA compliant and DIACAP pre-certified
- Optional outdoor housings (see page 55)

OPTIONAL ACCESSORIES

Ceiling Mount Bracket **WV-Q105** (for PAL only)

Embedded Ceiling Mount Bracket **WV-Q126**

Pendant Mount Bracket **WV-Q117**

Wall Mount Bracket **WV-Q118A / WV-Q118**

Smoke Dome Cover **WV-CS4S** (for PAL only)

Panasonic

Surface Mount Type

WV-CW504S (24V AC or 12V DC: NTSC)
WV-CW504F (24V AC or 12V DC: NTSC)

INDOOR/OUTDOOR SUPER DYNAMIC 5 VANDAL-RESISTANT FIXED DOME CAMERAS

- High resolution: 650 TV lines typical (Color), 700 TV lines (B/W)
- High sensitivity: 0.1 lx (Color), 0.01 lx (B/W) at F1.4 (Wide) / 0.003 lx (Color), 0.0003 lx (B/W) at F1.4 (Wide) with sens up 32x
- Super Dynamic 5 delivers superior image by fusion of Super Dynamic, Adaptive Black Stretch (ABS) and intelligent-Video Motion Detection (i-VMD) technologies
- Mounting accessories: PWM484S, PHM484S, PCM484S and PPM484S (See page 50)
- TAA compliant and DIACAP pre-certified (WV-CW504S)

OPTIONAL ACCESSORIES

Mount Bracket for WV-CW504F **WV-Q115**

Heater Unit **WV-CW5H**

Embedded Ceiling Mount Bracket **WV-Q169A**

Smoke Dome Cover **WV-CW4S**

Extended Sun Shade **WV-Q7118**

WV-CW334S (24V AC or 12V DC: NTSC)
WV-CW364S (24V AC or 12V DC: NTSC)

INDOOR/OUTDOOR VANDAL-RESISTANT FIXED DOME CAMERAS

- High sensitivity: 0.6 lx (Color), 0.4 lx (B/W) at F1.3 (Wide) (WV-CW334)
- High sensitivity: 0.6 lx (Color), 0.05 lx (B/W) at F1.3 (Wide) (WV-CW364)
- 2.8mm-10mm 3.6x varifocal auto iris lens
- Adaptive Black Stretch (ABS) enhances visibility of dark areas without degrading image quality in bright areas
- IP66 rated water and dust-resistant
- Mounting accessories: PWM484S, PHM484S, PCM484S and PPM484S (See page 50)

OPTIONAL ACCESSORIES

Heater Unit **WV-CW5H**

Embedded Ceiling Mount Bracket **WV-Q169A**

Smoke Dome Cover **WV-CW4S**

Extended Sun Shade **WV-Q7118**

WV-CF624

WV-CF634

WV-CF624 (24V AC or 12V DC: NTSC)
WV-CF634 (24V AC or 12V DC: NTSC)

INDOOR SUPER DYNAMIC 6 DAY & NIGHT FIXED DOME CAMERAS

- Super Dynamic 6 technology delivers 128x (NTSC) / 160x (PAL) wider dynamic range compared to conventional cameras
- High resolution: 650 TV lines
- High sensitivity with Day & Night function: 0.08 lx (Color), 0.008 lx (B/W) at F1.4. IR cut filter switches on/off to enhance the sensitivity in B/W mode
- Adaptive Black Stretch (ABS) enhances visibility of dark areas without degrading image quality in bright areas
- Auto Back Focus (ABF) ensures easy installation (WV-CF634)
- TAA compliant and DIACAP pre-certified (WV-CF634)

OPTIONAL ACCESSORY

Embedded Ceiling Mount Bracket **WV-Q174B**

Sail White

Indoor Pendant Mount Housing **PPMS1**

Black

Indoor Pendant Mount Housing **PPMS1B**

Beige

WV-CF344 WV-CF354

WV-CF344 (24V AC or 12V DC: NTSC)
WV-CF354 (24V AC or 12V DC: NTSC)

INDOOR DAY & NIGHT FIXED DOME CAMERAS

- High resolution: 650 TV lines
- High sensitivity with Day & Night (Electrical) function: 0.08 lx (Color), 0.05 lx (B/W) at F1.4
- Auto Back Focus (ABF) ensures easy installation (WV-CF354)

OPTIONAL ACCESSORY

Embedded Ceiling Mount Bracket
WV-Q174B

Sail White

Indoor Pendant Mount Housing
PPMS1

Black

Indoor Pendant Mount Housing
PPMS1B

Beige

WV-CF314L (24V AC or 12V DC: NTSC)

INDOOR IR LED DAY & NIGHT FIXED DOME CAMERA

- High resolution: 650 TV lines
- High sensitivity with Day & Night function: 0.08 lx (Color), 0 lx (B/W, LED on) at F1.3; IR cut filter switches on/off to enhance the sensitivity in B/W mode
- Auto Back Focus (ABF) ensures easy installation
- IR LED equipped: The equipped infrared LED makes it possible to take pictures at 0 lx; IR LED irradiation distance 20m

OPTIONAL ACCESSORY

Embedded Ceiling Mount Bracket
PRCM1

Panasonic

Lens: optional WV-CP620

Lens: optional WV-CP624

WV-CP620 (120V AC 60Hz: NTSC)
WV-CP624 (24V AC or 12V DC: NTSC)

SUPER DYNAMIC 6 DAY & NIGHT FIXED CAMERAS

- Super Dynamic 6 technology delivers 128x (NTSC) / 160x (PAL) wider dynamic range compared to conventional cameras
- High resolution: 650 TV lines
- High sensitivity with Day & Night function: 0.08 lx (Color), 0.008 lx (B/W) at F1.4. IR cut filter switches on/off to enhance the sensitivity in B/W mode
- Optional lens (see page 61)

Lens: optional WV-CP500

Lens: optional WV-CP504

WV-CP500 (120V AC: NTSC)
WV-CP504 (24V AC or 12V DC: NTSC)

SUPER DYNAMIC 5 DAY & NIGHT CAMERAS

- High resolution: 650 TV lines typical (Color), 700 TV lines (B/W)
- High sensitivity: 0.1 lx (Color), 0.01 lx (B/W) at F1.4 / 0.003 lx (Color), 0.0003 lx (B/W) at F1.4 with electronic sensitivity enhancement up to 32x
- Super Dynamic 5 delivers superior image by fusion of Super Dynamic, Adaptive Black Stretch (ABS) and intelligent-Video Motion Detection (i-VMD) technologies
- Optional lens (see page 61)

Lens: optional WV-CP300 WV-CP304

Lens: optional WV-CP310 WV-CP314

WV-CP300 (120V AC: NTSC)
WV-CP304 (24V AC or 12V DC: NTSC)
WV-CP310 (120V AC: NTSC)
WV-CP314 (24V AC or 12V DC: NTSC)

DAY & NIGHT CAMERAS

- High resolution: 650 TV lines
- High sensitivity with Day & Night function: 0.08 lx (Color), 0.008 lx (B/W) at F1.4. IR cut filter switches on/off to enhance the sensitivity in B/W mode (WV-CP310/ WV-CP314)
- High sensitivity with Day & Night (Electrical) function: 0.08 lx (Color), 0.05 lx (B/W) at F1.4 (WV-CP300/WV-CP304)
- Optional lens (see page 61)

AVAILABLE DECEMBER 2014 **WV-CP630 & WV-CP634**

FIXED CAMERAS

WV-CW314L (24V AC or 12V DC: NTSC)

WEATHER-RESISTANT IR LED DAY & NIGHT FIXED CAMERA

- High resolution: 650 TV lines
- High sensitivity with Day & Night function: 0.08 lx (Color), 0 lx (B/W, LED on) at F1.3. IR cut filter switches on/off to enhance the sensitivity in B/W mode
- IR LED equipped: The equipped infrared LED makes it possible to take pictures at 0 lx; IR LED irradiation distance 50m

Lens: optional

WV-CL930 (120V AC: NTSC)
WV-CL934 (24V AC or 12V DC: NTSC)

HIGH-SENSITIVITY DAY & NIGHT CAMERAS

- 1/2 type interline transfer CCD
- Ultra high sensitivity: 0.09 lx (Color), 0.008 lx (B/W) at F1.4 / 0.003 lx (Color), 0.0003 lx (B/W) at F1.4 with sens up 32x
- Auto Back Focus (ABF) adjustment
- Built-in Video Motion Detector (VMD)

DIGITAL VIDEO RECORDERS

Panasonic

WJ-HD716

SD5 Link Super Dynamic

HDMI HIGH-DEFINITION MULTIMEDIA INTERFACE

UniPhier®

WJ-HD716 (120V AC: NTSC)

16 CH REAL-TIME H.264 DIGITAL DISK RECORDER

WJ-HD616 (120V AC: NTSC)

16 CH H.264 DIGITAL DISK RECORDER

- Dual HDMI Full HD 1080i (1920 x 1080) display
- H.264 (high-profile) codec reduces bandwidth by up to 40% compared with MPEG-4
- SD5 Link (Super Dynamic 5 Link) with intelligent-Video Motion Detection (i-VMD) alarm
- Real-time recording (WJ-HD716) and 16CH 2x monitors real-time live
- Up to 31 HDD slots with four HDD slots in the main unit and three WJ-HDE400 optional extension units, each with nine HDD slots

OPTIONAL ACCESSORIES

RAID Board
WJ-HDB601

Built-in DVD Drive
WJ-HDB611

Hard Disk Extension Unit
WJ-HDE400

4TB HDD
Canister/4000

3TB HDD
Canister/3000

2TB HDD
Canister/2000

SYSTEM CONTROLLERS

WV-CU950

ETHERNET SYSTEM CONTROLLER WITH 3D-JOYSTICK AND JOG/SHUTTLE

- For smooth operation of Ethernet/PS data interfaced devices, WV-ASM200/WV-ASC970 and System650EX/System650/System150 (WJ-SX150A version 2.0 or higher)
- Integrated system control: camera, recorder and switcher
- User-level management and user-assignable buttons
- Universal design for right or left-handed users

WV-CU650

RS-485 SYSTEM CONTROLLER WITH 3D-JOYSTICK AND JOG/SHUTTLE

- For smooth operation of PS data interfaced devices and System650/System150 (WJ-SX150A version 2.0 or higher)
- Integrated system control: camera, recorder and switcher
- User-level management and user-assignable buttons
- Universal design for right or left-handed users

MATRIX SWITCHING SYSTEM

SYSTEM650 WITH PMPU2000

512-INPUT MATRIX SWITCHING SYSTEM

- Up to 512 inputs and 64 outputs
- Simultaneous use of up to 64 WV-CU950 Ethernet System Controllers
- Up to 512 users
- Up to 32 recorders (WJ-HD716/WJ-HD616)
- Up to 64 satellite domains

SYSTEM650

256-INPUT MATRIX SWITCHING SYSTEM

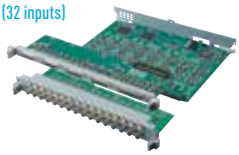
- Up to 256 inputs and 32 outputs
- Simultaneous use of up to 16 WV-CU650 RS-485 System Controllers
- Up to 60 users
- Up to 16 recorders (WJ-HD716/WJ-HD616)

SYSTEM650EX/SYSTEM650 SYSTEM COMPONENTS

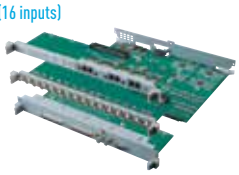
Matrix Switcher
WJ-SX650

Card Cage
WJ-SX650U

Video Input Board
WJ-PB65C32
(32 inputs)



Video Output Board
WJ-PB65M16
(16 inputs)



Network Board
WJ-PB65E01
(for System650EX only)

D-sub/BNC Video Cable
WJ-CA68 (0.5m)

Expansion Cable Kit
WJ-CA65L20K (2m)
WJ-CA65L07K (0.7m)

RS-485 System Controller with 3D-Joystick and Jog/Shuttle
WV-CU650 (for System650 only)

Ethernet System Controller with 3D-Joystick and Jog/Shuttle
WV-CU950

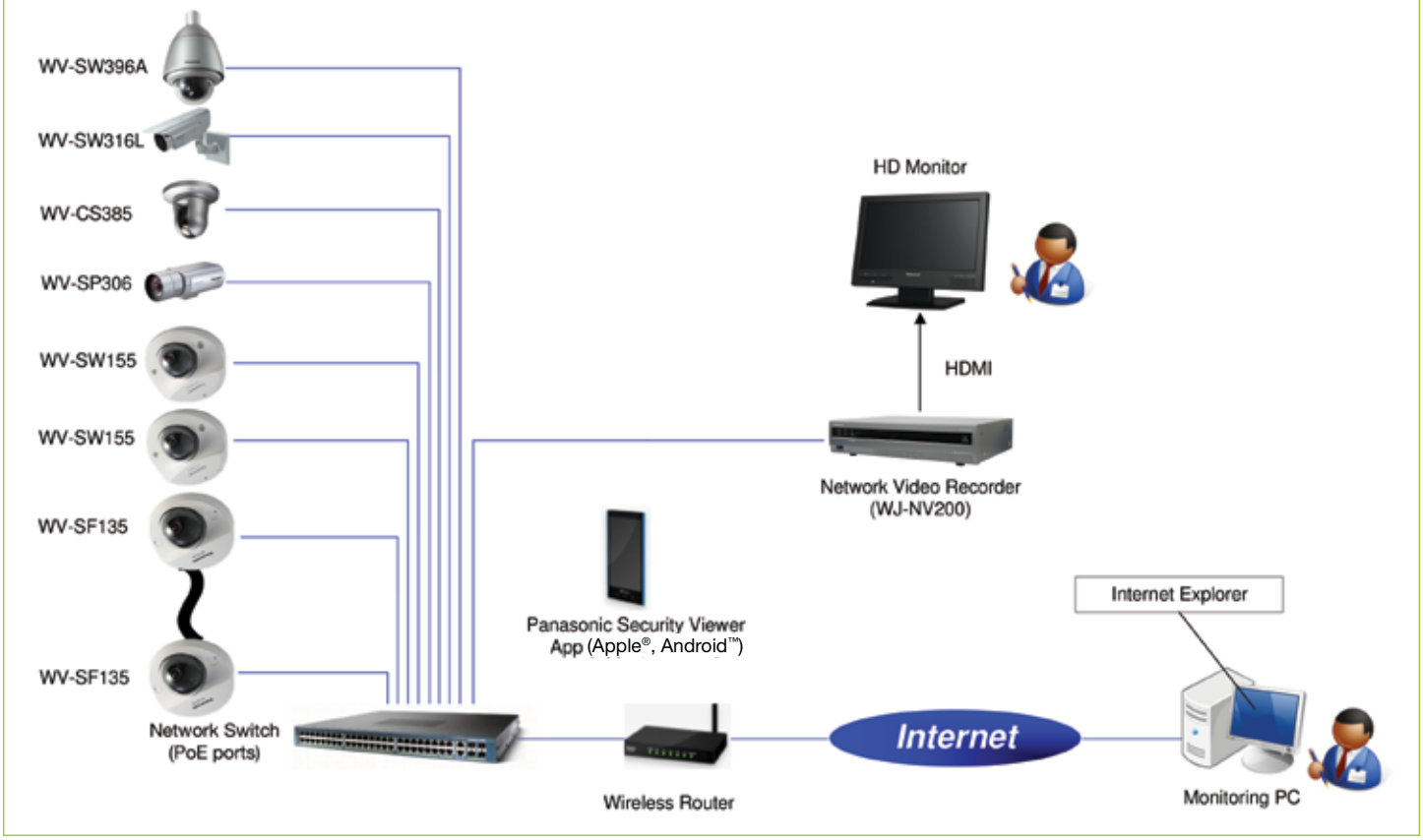
IP Matrix Appliance Software
PMPU2000
(for System650EX only)

IP Matrix Client Software
WV-ASM970 (Version 7)

The picture above is for illustration purposes only.

Panasonic

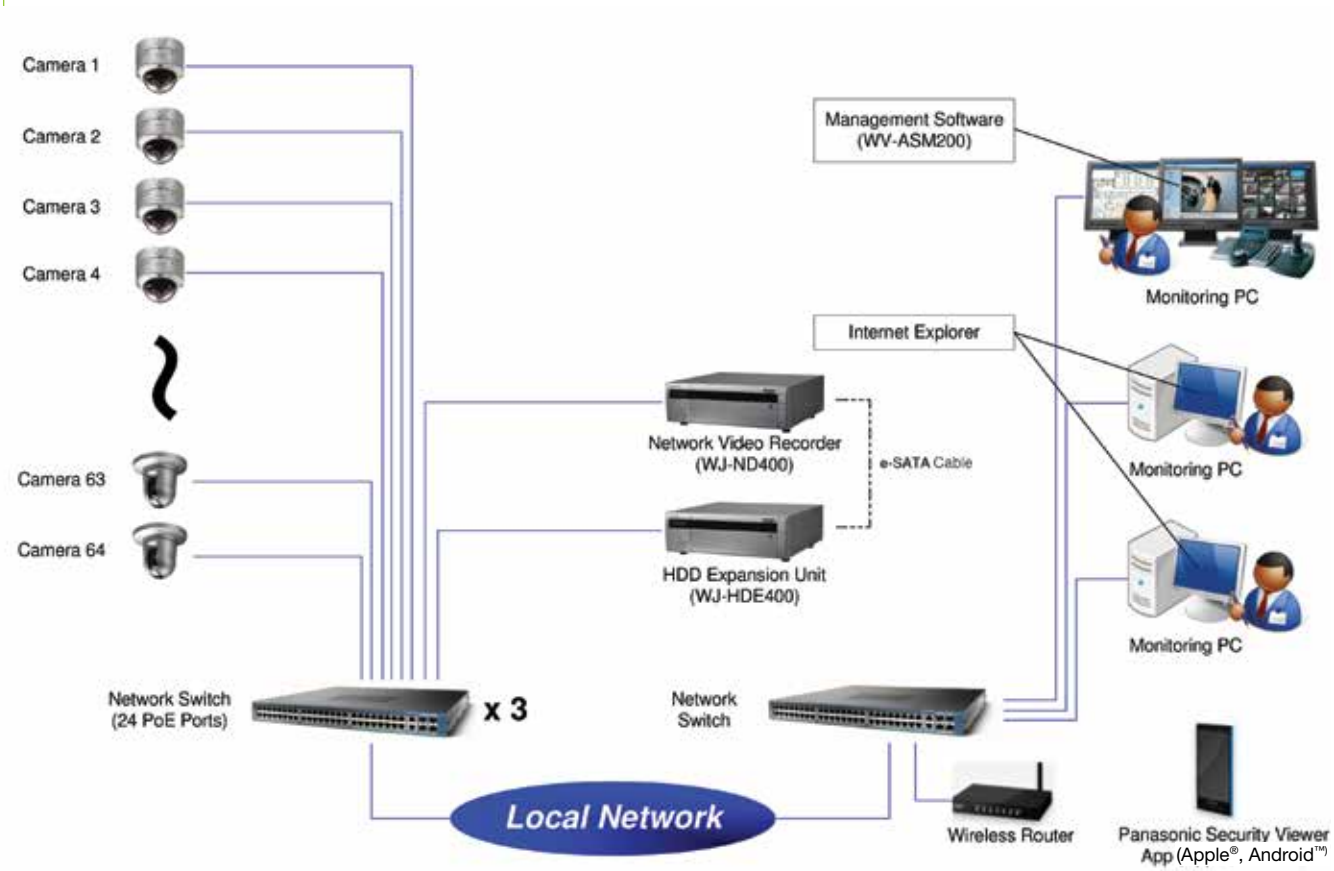
SMALL IP SYSTEM



Symbol	Description
	Network Cable; CAT5E or CAT6 Cable
	Video Cable; Coaxial Cable
HDMI HDMI	High-definition Multimedia Interface Cable

Symbol	Description
	WJ-ND400 Series Expansion Cable; e-SATA Cable
	Control Cable; RS-485 Communications Cable
	Low-voltage Power Cable; Camera Power 24VAC

MIDSIZE IP SYSTEM



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	Network Cable; CAT5E or CAT6 Cable
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HDMI / HDMI	High-definition Multimedia Interface Cable

Symbol	Description
	WJ-ND400 Series Expansion Cable; e-SATA Cable
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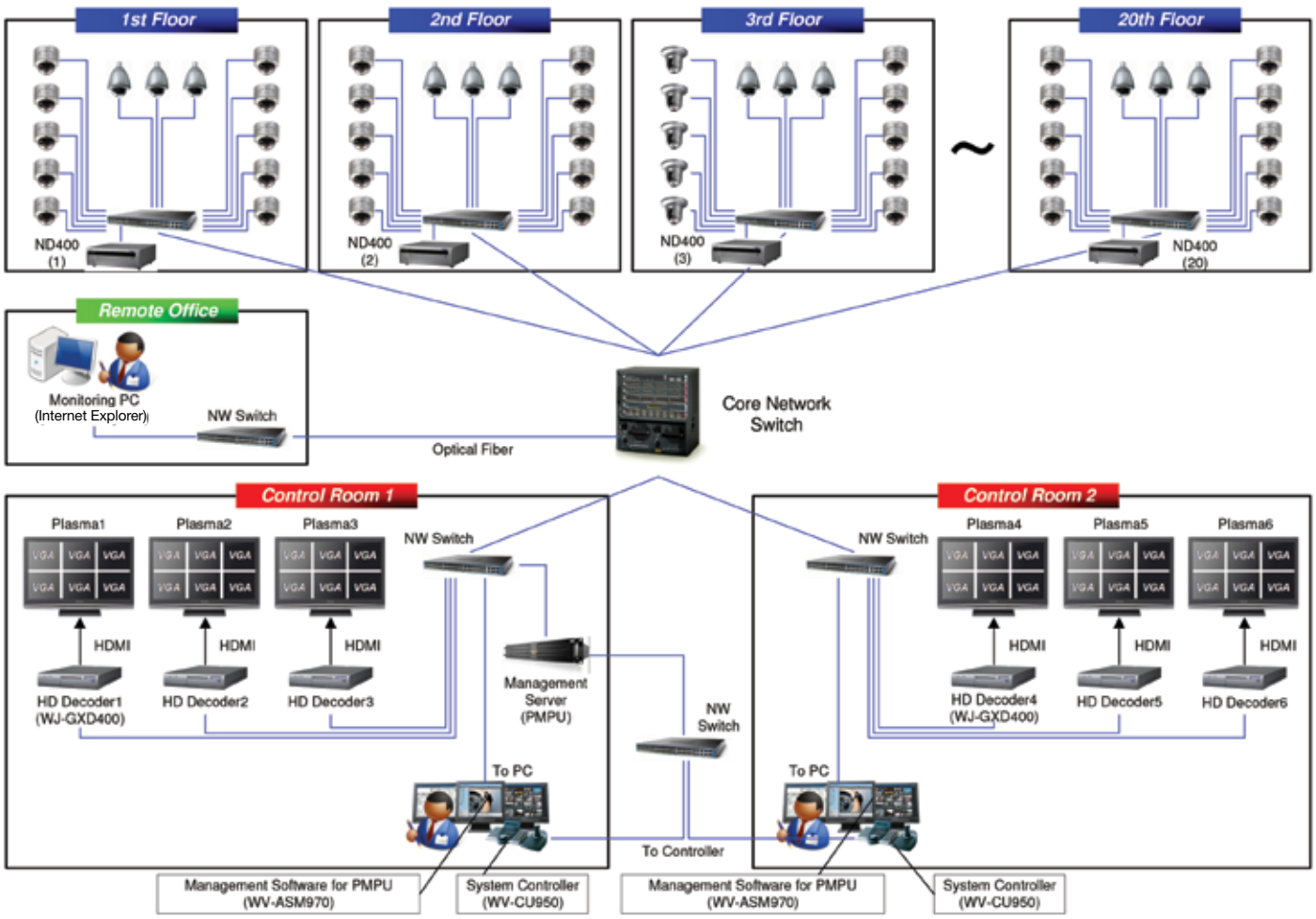
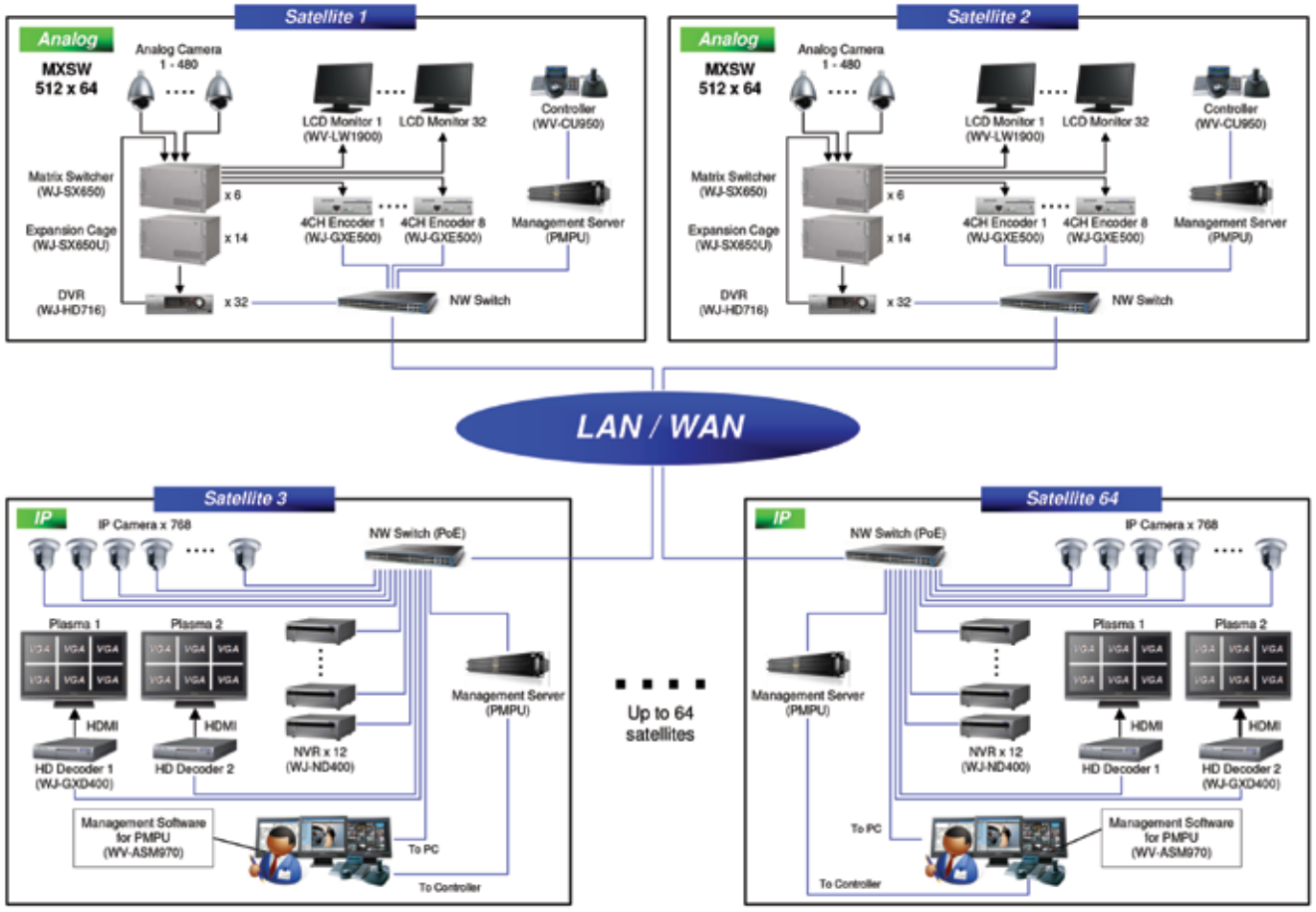
LARGE IP SYSTEM



LARGE SATELLITE SYSTEM



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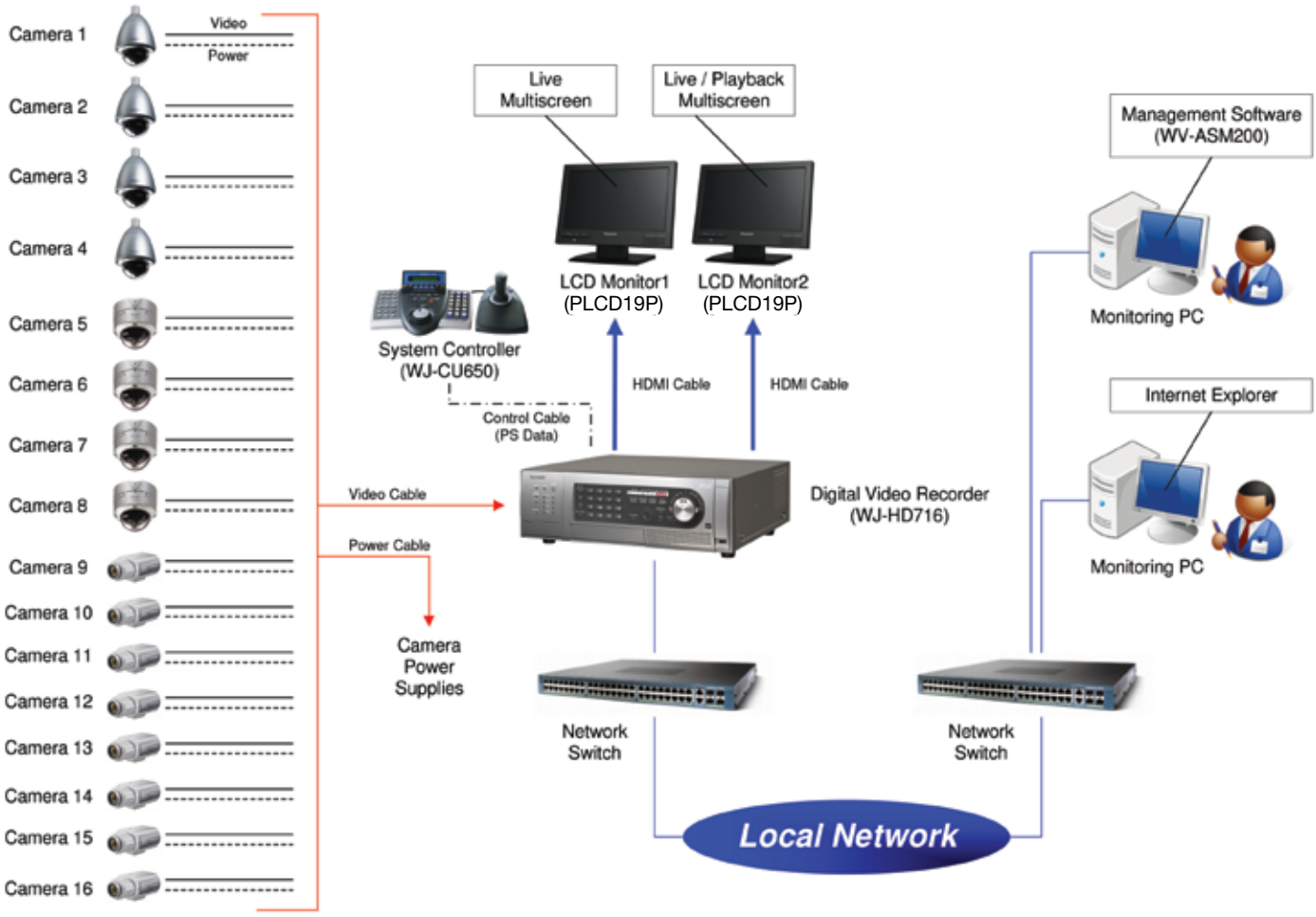
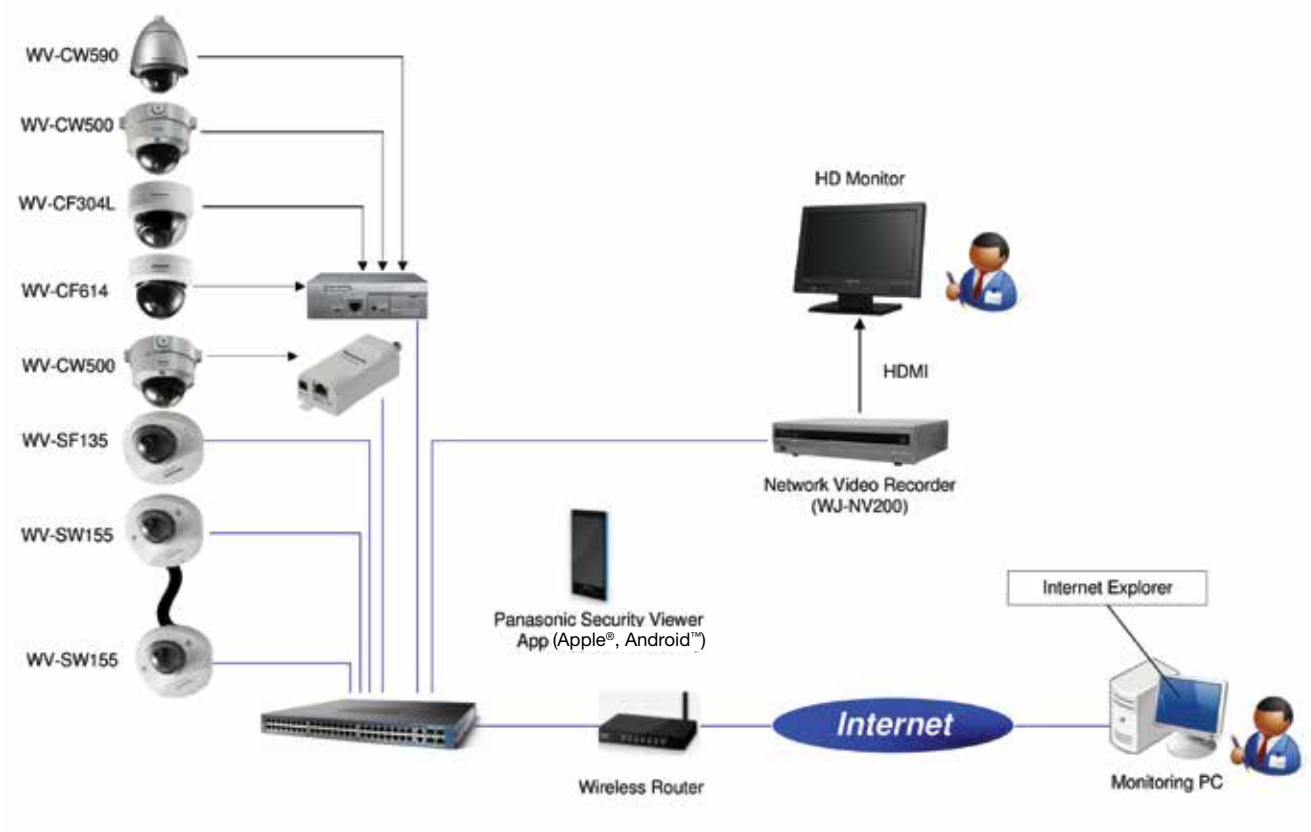
HDMI HDMI	High-definition Multimedia Interface Cable

Symbol	Description
	WJ-ND400 Series Expansion Cable; e-SATA Cable
	Control Cable; RS-485 Communications Cable
	Low-voltage Power Cable; Camera Power 24VAC

SMALL ANALOG SYSTEM



SMALL HYBRID SYSTEM



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	Network Cable; CAT5E or CAT6 Cable
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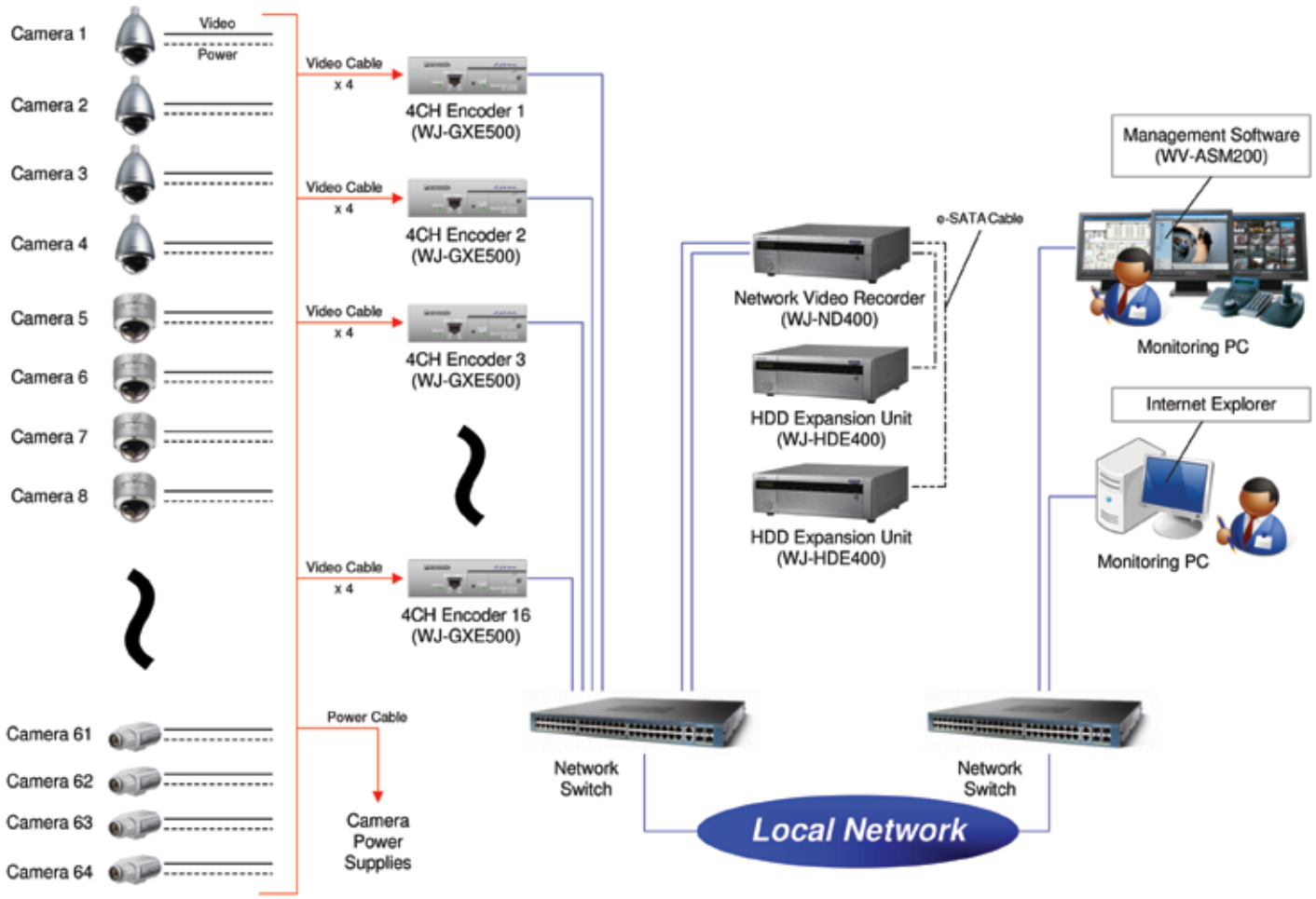
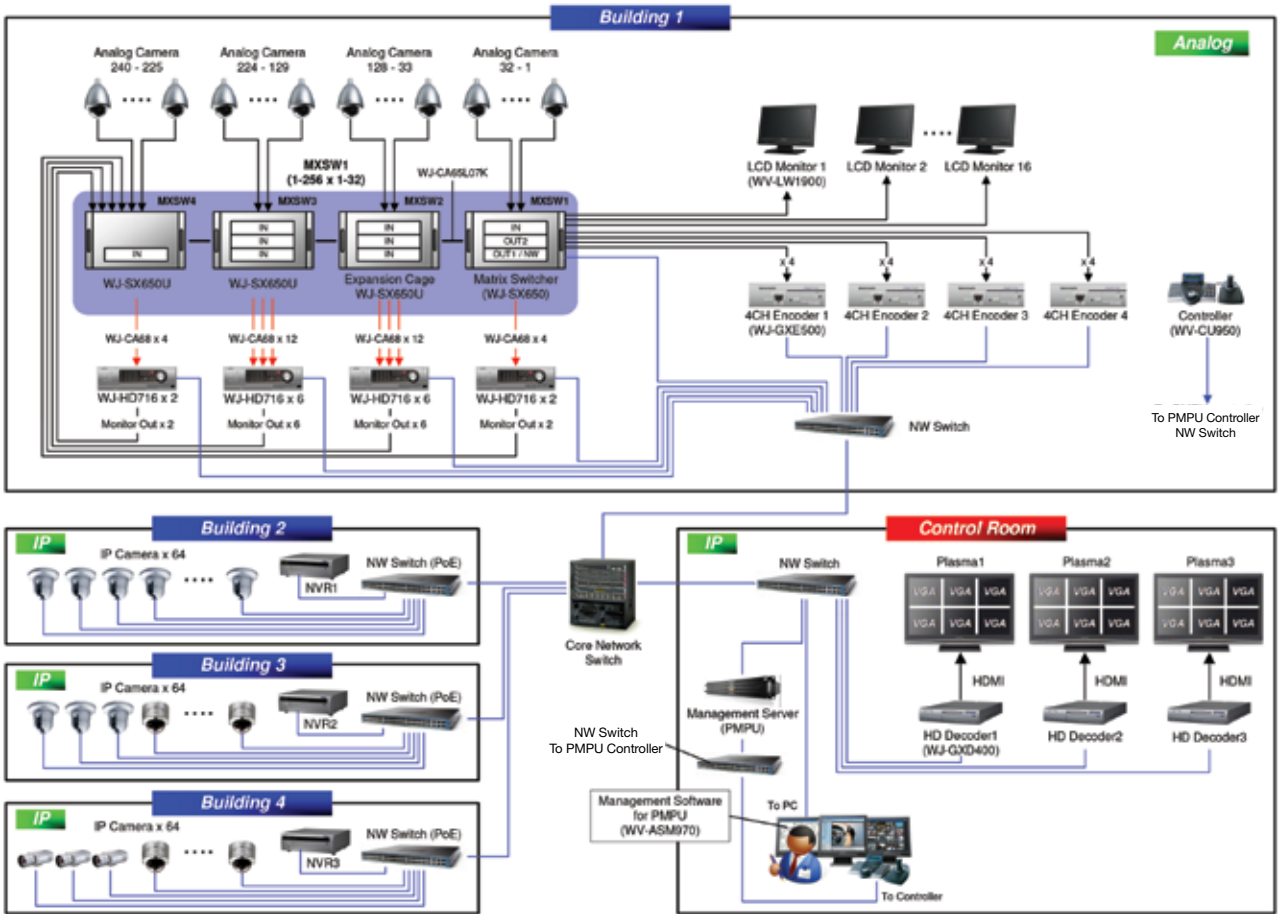
HDMI HDMI	High-definition Multimedia Interface Cable

Symbol	Description
	WJ-ND400 Series Expansion Cable; e-SATA Cable
	Control Cable; RS-485 Communications Cable
	Low-voltage Power Cable; Camera Power 24VAC

MIDSIZE HYBRID SYSTEM



LARGE HYBRID SYSTEM



Symbol	Description
	Network Cable; CAT5E or CAT6 Cable
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HDMI / HDMI	High-definition Multimedia Interface Cable

Symbol	Description
	WJ-ND400 Series Expansion Cable; e-SATA Cable
	Control Cable; RS-485 Communications Cable
	Low-voltage Power Cable; Camera Power 24VAC

Panasonic

CAMERA ACCESSORIES

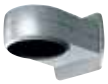
MODEL	TYPE	INFO	IMAGE	DESCRIPTION	COMPATIBLE WITH
WV-CF5SA	Optional Dome	Camera Accessories		Smoke Dome	WV-SF539/538, WV-SF336/335/332, WV-SFN631L/611L, WV-SFN310/311
WV-CS4S	Optional Dome	Camera Accessories		Smoke Dome	WV-SC386, WV-CS584
WV-CS5C	Optional Dome	Camera Accessories		Clear Dome	WV-SC588
WV-CS5S	Optional Dome	Camera Accessories		Smoke Dome	WV-SC588
WV-CR1S	Optional Dome	Camera Accessories		Smoke Dome	WV-SFR631L/611L, WV-SFR310/311
WV-CW4C	Optional Dome	Camera Accessories		Clear Dome	WV-NW502S, WV-SW559/558, WV-SW355/352, WV-CW504S, WV-CW364S/334S
WV-CW4S	Optional Dome	Camera Accessories		Smoke Dome	WV-NW502S, WV-SW559/558, WV-SW355/352, WV-CW504S, WV-CW364S/334S
WV-CW7S	Optional Dome	Camera Accessories		Smoke Dome	WV-SFV631L/631LT/611L, WV-SFV310/311
WV-CW6S	Optional Dome	Camera Accessories		Smoke Dome	WV-SW155/155M/152/152M, WV-SF135/132
WV-CW6SA	Optional Dome	Camera Accessories		Smoke Dome	WV-SW158/155/155M/152/152M, WV-SF138/135/132
WV-Q7118	Extended Shade Cover	Camera Accessories		Smoke Cover	WV-SFV631L/631LT/611L, WV-SW3XX, WV-SW5XX, WV-SFV310/311
WV-SW3H	Optional Heater	Camera Accessories		Heater Unit	WV-SW355/352
WV-CW5H	Optional Heater	Camera Accessories		Heater Unit	WV-CW504S, WV-CW364S/334S

HOUSING AND MOUNTING BRACKETS FOR DOME CAMERAS

			CAMERA TYPE		
			OUTDOOR VANDAL		
MODEL NO.	PICTURE	DESCRIPTION	WV-NW502S; WV-SVF631L/631LT/611L WV-SW559/558/355/352 WV-SFV311/310	WV-SW458	WV-CW504S/504F WV-CW364S/334S
WV-Q169A		Embedded Ceiling Mount Bracket	Yes		Yes
WV-Q174B		Embedded Ceiling Mount Bracket			
PRCM1		Embedded Ceiling Mount Bracket	Yes		Yes
NEW PPMS1		Indoor Pendant Mount Housing, Black			
NEW PPMS1B		Indoor Pendant Mount Housing, Beige			
PS484S		Vandal-resistant Shroud	Yes	Yes	Yes
PPM484S		Vandal-resistant Pole Mount	Yes	Yes	Yes
PCM484S		Vandal-resistant Corner Mount	Yes	Yes	Yes
PHM484S		Vandal-resistant Hanging Mount	Yes	Yes	Yes
PWM484S		Vandal-resistant Wall Mount	Yes	Yes	Yes
WV-Q7118		Extended Sun Shade	Yes		Yes

INDOOR DOME		HOUSING FEATURES								
WV-SFN631L/611L, WV-SFR631L/611L WV-SF549/548/539/538 WV-SF346/342/336/335/332 WV-SFN311/310, WV-SFR311/310	WV-CF600 SERIES WV-CF300 SERIES	INDOOR	OUTDOOR	VANDAL	PENDANT MOUNT	WALL MOUNT	SMOKE DOME	CLEAR DOME	RECESSED CEILING	HEATER/ BLOWER
		Yes							Yes	
Yes (Except WV-SF54x/34x Series)	Yes (Except WV-CF314L)	Yes							Yes	
Yes	Yes	Yes							Yes	
Yes (Except WV-SF54x/34x Series and SFR631L/611L)	Yes	Yes			Yes					
Yes (Except WV-SF54x/34x Series and SFR631L/611L)	Yes	Yes			Yes					
			Yes							
			Yes							
			Yes							
			Yes							
			Yes							
			Yes							

HOUSING AND MOUNTING BRACKETS FOR INDOOR PTZ CAMERAS

			CAMERA TYPE			
			PTZ			
MODEL NO.	PICTURE	DESCRIPTION	WV-SC588	WV-SC386	WV-SC385	
WV-Q117		Suspended Ceiling Mount				
WV-Q118A		Wall Mount Bracket, Silver		Yes		
WV-Q119		Wall Mount Bracket, White	Yes			
WV-Q126 WV-Q126A		Embedded Ceiling Mount Bracket	Yes (WV-Q126A)	Yes		
WV-Q154C		Wall Mount Bracket—Clear Dome			Yes	
WV-Q154S		Wall Mount Bracket—Smoke Dome			Yes	
WV-Q155C		Embedded Ceiling Mount Bracket—Clear Dome			Yes	
WV-Q155S		Embedded Ceiling Mount Bracket—Smoke Dome			Yes	
WV-Q156C		Ceiling Mount Bracket—Clear Dome			Yes	
WV-Q156S		Ceiling Mount Bracket—Smoke Dome			Yes	
WV-Q157		Inner Dome Cover			Yes	
PISM5V		5" Indoor Vandal-resistant Housing			Yes	
PIDV7CN		7" Indoor Recessed Ceiling Housing with Clear Dome	Yes	Yes	Yes	

	HOUSING FEATURES								
WV-CS584	INDOOR	OUTDOOR	VANDAL	PENDANT MOUNT	WALL MOUNT	SMOKE DOME	CLEAR DOME	RECESSED CEILING	HEATER/ BLOWER
Yes	Yes			Yes					
Yes	Yes				Yes				
	Yes				Yes				
Yes	Yes							Yes	
	Yes				Yes				
	Yes				Yes	Yes			
	Yes							Yes	
	Yes					Yes		Yes	
	Yes								
	Yes					Yes			
	Yes								
	Yes		Yes	Yes			Yes		
Yes	Yes		Yes				Yes	Yes	

HOUSING AND MOUNTING BRACKETS FOR INDOOR PTZ CAMERAS (CONT.)

			CAMERA TYPE			
			PTZ			
MODEL NO.	PICTURE	DESCRIPTION	WV-SC588	WV-SC386	WV-SC385	
PIDV7SN		7" Indoor Recessed Ceiling Housing with Smoke Dome	Yes	Yes	Yes	
PDM9		9" Indoor Recessed Ceiling Housing (Dome Not Included)				
PID9		9" Indoor Recessed Ceiling Housing (Dome Not Included)	Yes	Yes	Yes	
POSM5V		5" Outdoor Vandal-resistant Housing 24V AC to 12V DC Converter			Yes	
PODV9CPTA		9" Outdoor Vandal-resistant Dome Housing with Pendant Mount	Yes	Yes	Yes	
PODV9CWTA		9" Outdoor Vandal-resistant Dome Housing with Wall Mount	Yes	Yes	Yes	
POD9CA		9" Outdoor Dome Housing with Pendant Mount, Silver	Yes	Yes	Yes	
POD9CWA		9" Outdoor Dome Housing with Wall Mount, Silver	Yes	Yes	Yes	
POD9CTA		9" Outdoor Dome Housing with Pendant Mount, White	Yes	Yes	Yes	
POD9CWTA		9" Outdoor Dome Housing with Wall Mount, White	Yes	Yes	Yes	
PPFD9C		9" Outdoor Pressurized Dome Housing for Analog Camera				
PPFD9CN		9" Outdoor Pressurized Dome Housing for Network Camera	Yes	Yes	Yes	

	HOUSING FEATURES								
	WV-CS584	INDOOR	OUTDOOR	VANDAL	PENDANT MOUNT	WALL MOUNT	SMOKE DOME	CLEAR DOME	RECESSED CEILING	HEATER/ BLOWER
	Yes	Yes		Yes			Yes		Yes	
	Yes	Yes						Yes	Yes	
	Yes	Yes						Yes	Yes	
			Yes	Yes				Yes		Yes
	Yes		Yes	Yes	Yes			Yes		Yes
	Yes		Yes	Yes		Yes		Yes		Yes
	Yes		Yes		Yes			Yes		Yes
	Yes		Yes			Yes		Yes		Yes
	Yes		Yes		Yes			Yes		Yes
	Yes		Yes			Yes		Yes		Yes
	Yes		Yes		Yes			Yes		Yes
			Yes		Yes			Yes		Yes

HOUSING AND MOUNTING BRACKETS FOR OUTDOOR PTZ CAMERAS

			CAMERA TYPE			
			PTZ			
MODEL NO.	PICTURE	DESCRIPTION	WV-SW598	WV-SW396A	WV-SW395A	
PPRM30G		Parapet Mount Short, Black	Yes	Yes	Yes	
PPRM30GB		Parapet Mount Short, Beige	Yes	Yes	Yes	
PWM30G		Parapet Mount Long, Black	Yes	Yes	Yes	
PWM30GB		Parapet Mount Long, Beige	Yes	Yes	Yes	
PWM20G		Gooseneck Wall Mount, Black	Yes	Yes	Yes	
PWM20GB		Gooseneck Wall Mount, Beige	Yes	Yes	Yes	
PWM20GS		Gooseneck Wall Mount, Silver	Yes	Yes	Yes	
PSRCW2000B		Parapet Rooftop Mount, Black	Yes	Yes	Yes	

	HOUSING FEATURES								
	WV-CW594A	INDOOR	OUTDOOR	VANDAL	PENDANT MOUNT	WALL MOUNT	SMOKE DOME	CLEAR DOME	RECESSED CEILING	HEATER/ BLOWER
	Yes		Yes			Yes				
	Yes		Yes			Yes				
	Yes		Yes			Yes				
	Yes		Yes			Yes				
	Yes		Yes			Yes				
	Yes		Yes			Yes				
	Yes		Yes			Yes				
	Yes		Yes							

HOUSING AND MOUNTING BRACKETS FOR FIXED CAMERAS

			CAMERA TYPE			
			FIXED			
MODEL NO.	PICTURE	DESCRIPTION	WV-SW316LA/SW316A WV-SW314A	WV-SP509/508 WV-SP306/305/302 WV-SPN631/611	WV-SP105/102	
WV-Q120A		Adapter Box	Included			
PUM8		Universal Camera Mount (Max. Weight 3 lbs.)		Yes	Yes	
PAPM3		Pole Mount Adapter	Yes			
POD8CF		8" Outdoor Dome Housing for Fixed Camera with Pendant Mount		Yes	Yes	
POD8CWF		8" Outdoor Dome Housing for Fixed Camera with Wall Mount		Yes	Yes	
POH1000		10" Outdoor Housing				
POH1100		10" Outdoor Housing				
POH1000HB		10" Outdoor Housing with Heater and Blowers				
POH1100HB		10" Outdoor Housing with Heater and Blowers				
POH1100NWME		10" Outdoor Housing with Heater and Blowers with PoE Plus		Yes	Yes	
POH1000NWM		10" Outdoor Housing with Heater and Blowers with PoE Plus with Midspan		Yes	Yes	
POH1100NWM		10" Outdoor Housing with Heater and Blowers with PoE Plus with Midspan		Yes	Yes	
POH1500HB		15" Outdoor Housing with Heater and Blowers				

	HOUSING FEATURES								
WV-CP500 SERIES WV-CP600/CP300 SERIES	INDOOR	OUTDOOR	VANDAL	PENDANT MOUNT	WALL MOUNT	SMOKE DOME	CLEAR DOME	RECESSED CEILING	HEATER/ BLOWER
		Yes			Yes				
Yes	Yes				Yes				
Yes		Yes		Yes			Yes		Yes
Yes		Yes			Yes		Yes		Yes
Yes	Yes	Yes			Yes				
Yes	Yes	Yes			Yes				
Yes		Yes			Yes				Yes
Yes		Yes			Yes				Yes
		Yes			Yes				Yes
		Yes			Yes				Yes
		Yes			Yes				Yes
Yes		Yes			Yes				Yes

VARIFOCAL LENSES FOR HD CAMERAS

SIZE	MODEL NO.	PICTURE	COMPANY	FOCAL LENGTH (MM)	APERTURE RATIO @ WIDE	AUTO IRIS	WV-NW502S	WV-SPN631/611 SP509/SP508	WV-SP306/ SP305/SP302
1/3"	PLAMP2206		Fujinon	2.2~6.0	F1.3	Yes		Yes	Yes
1/3"	PLAMP2406		Tamron	2.4~6.0	F1.2	Yes		Yes	Yes
1/3"	PLAMP2808		Fujinon	2.8~8.0	F1.2	Yes	Yes	Yes	Yes
1/3"	PLAMP2812		Fujinon	2.8~12.0	F1.4	Yes		Yes	Yes
1/3"	PLAMP0922		Tokina	9.0~22.0	F1.6	Yes	Yes	Yes	Yes
1/3"	PLAMP0550		Tamron	5.0~50.0	F1.4	Yes		Yes	Yes
1/3"	PLZ15/33		Fujinon	15.0~50.0	F1.5	Yes	Yes	Yes	Yes

M12 LENSES FOR HD CAMERAS

SIZE	MODEL NO.	PICTURE	COMPANY	FOCAL LENGTH (MM)	APERTURE RATIO @ WIDE	AUTO IRIS	WV-SW158/ SF138	WV-SW155/ SW152/ SF135	WV-SF132	WV-SW115
1/3"	PLM12MP028/10		Evetar	2.8	F2.0	No	Yes	Yes		Yes
1/3"	PLM12MP060/10		Evetar	6.0	F1.8	No	Yes	Yes		Yes
1/3"	PLM12MP120/10		Evetar	12.0	F1.8	No	Yes	Yes		Yes

VARIFOCAL LENSES FOR SD CAMERAS

SIZE	MODEL NO.	PICTURE	COMPANY	FOCAL LENGTH (MM)	APERTURE RATIO @ WIDE	AUTO IRIS	WV-CL930 SERIES	WV-CW504 SERIES	WV-CP500 SERIES WV-CP600 SERIES WV-CP300 SERIES	WV-SP302
1/2"	PLAHS1770		Fujinon	7.0~70.0	F1.8	Yes	Yes			
1/3"	WV-LZA61/2S		Panasonic	3.8~8.0	F1.4	Yes			Yes	Yes
1/3"	WV-LZ62/8S		Panasonic	5.0~40.0	F1.6	Yes			Yes	Yes
1/3"	PLA22T3DN		Tamron	2.2	F1.2	Yes		Yes	Yes	Yes
1/3"	PLZ27/5DN		Fujinon	2.7~13.5	F1.3	Yes			Yes	Yes
1/3"	PLZ29/27		Fujinon	2.9~8.0	F0.95	Yes		Yes	Yes	Yes
1/3"	PLZ5/10		Fujinon	5.0~50.0	F1.6	Yes			Yes	Yes
1/3"	PLZ15/33		Fujinon	15.0~50.0	F1.5	Yes		Yes	Yes	Yes
1/3"	PLZ20/5		Tamron	20.0~100.0	F1.6	Yes			Yes	Yes

READY-TO-GO PACKAGES

		CAMERAS						
		WV-CW504F	WV-CW504S	WV-NW502S	WV-CP314	WV-CP504	WV-SP302	WV-SP509
		Analog Flush Mount	Analog Surface Mount	Full HD i-PRO Surface Mount	Analog	Analog	i-PRO	Full HD i-PRO
WV-CW504F		Yes						
WV-CW504F/09		Yes						
WV-CW504F/15		Yes						
WV-CW504F/22		Yes						
WV-CW504S			Yes					
WV-CW504S/09			Yes					
WV-CW504S/15			Yes					
WV-CW504S/22			Yes					
WV-NW502S				Yes				
WV-NW502S/09				Yes				

	LENSES							HOUSING
	PLAMP0922	PLZ15/33	PLAMP2206	PLAMP2812	PLZ5/10	PLAMP0550	PLAMP2406	POH1000HB
	9.0 ~ 22.0 mm F1.6	15.0 ~ 50.0 mm F1.5	2.2 ~ 6.0 mm F1.3	2.8 ~ 12.0 mm F1.4	5.0 ~ 50.0 mm F1.6	5.0 ~ 50.0 mm F1.4	2.4 ~ 6.0 mm F1.2	10" Outdoor Housing with Heater and Blowers Wall Mount
	Yes							
		Yes						
			Yes					
	Yes							
		Yes						
			Yes					
	Yes							

READY-TO-GO PACKAGES (CONT.)

		CAMERAS						
		WV-CW504F	WV-CW504S	WV-NW502S	WV-CP314	WV-CP504	WV-SP302	WV-SP509
		Analog Flush Mount	Analog Surface Mount	Full HD i-PRO Surface Mount	Analog	Analog	i-PRO	Full HD i-PRO
WV-NW502S/15				Yes				
WV-NW502S/22				Yes				
POC314L2					Yes			
POC314L5					Yes			
POC504L2						Yes		
POC504L5						Yes		
POCSP302L2							Yes	
POCSP302L5							Yes	
POCSP509LMP05								Yes
POCSP509LMP24								Yes

	LENSES							HOUSING
	PLAMP0922	PLZ15/33	PLAMP2206	PLAMP2812	PLZ5/10	PLAMP0550	PLAMP2406	POH1000HB
	9.0 ~ 22.0 mm F1.6	15.0 ~ 50.0 mm F1.5	2.2 ~ 6.0 mm F1.3	2.8 ~ 12.0 mm F1.4	5.0 ~ 50.0 mm F1.6	5.0 ~ 50.0 mm F1.4	2.4 ~ 6.0 mm F1.2	10" Outdoor Housing with Heater and Blowers Wall Mount
		Yes						
			Yes					
				Yes				Yes
					Yes			Yes
				Yes				Yes
					Yes			Yes
				Yes				Yes
					Yes			Yes
						Yes		Yes
							Yes	Yes

MONITORS

MODEL	TYPE	INFO	IMAGE	DESCRIPTION	COMPATIBLE WITH
PLCD9C	Monitors	LCD Monitors		9" LCD monitor, 800 x 600	
PLCD9C/2	Monitors	LCD Monitors		2-9" LCD monitor, 800 x 600 with rack mount	
PLCD15V	Monitors	LCD Monitors		15" LCD monitor, 1024 x 768, 4:3 aspect ratio, two built-in speakers, 2x BNC input, S-Video in/output, RGB input	
PLCD19P	Monitors	LCD Monitors		19" LCD, 1280 x 1024, 5:4 aspect ratio, two built-in speakers, 2x BNC input, S-Video in/output, RGB input, DVI input, HDMI input	
PLCD24HDA	Monitors	LCD Monitors		24" Full HD LCD, 1920 x 1080, 16:9 aspect ratio, two built-in speakers, 2x BNC input, S-Video in/output, RGB input, DVI input, HDMI input	
PLCD27HDA	Monitors	LCD Monitors		27" Full HD LED, 1920 x 1080, 16:9 Aspect Ratio, two built-in speakers, 2x BNC input, S-Video in/output, DVI input, HDMI input	
PLCD42HDA	Monitors	LCD Monitors		42" Full HD LED, 1920 x 1080, 16:9 aspect ratio, two built-in speakers, 2x BNC input, S-Video in/output, DVI input, HDMI input, pedestal stand	
PRMK08	Monitors	Accessories	Image Not Available	Rack mount kit for PLCD15V, PLCD20P monitors	PLCD15V PLCD19P

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- Customer training

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System Implementation with SI Partners

Post-implementation Support

- Service / warranty
- Extended warranties are available

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